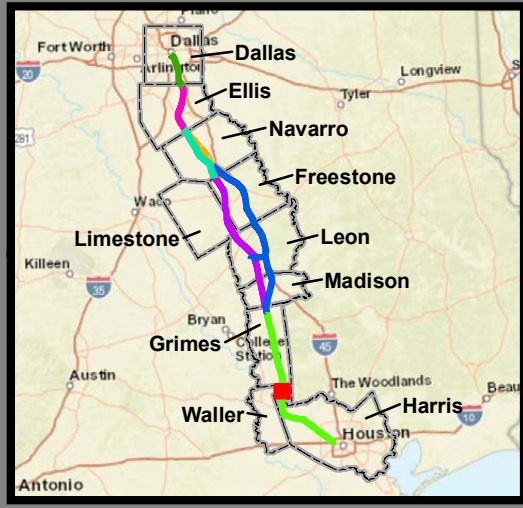
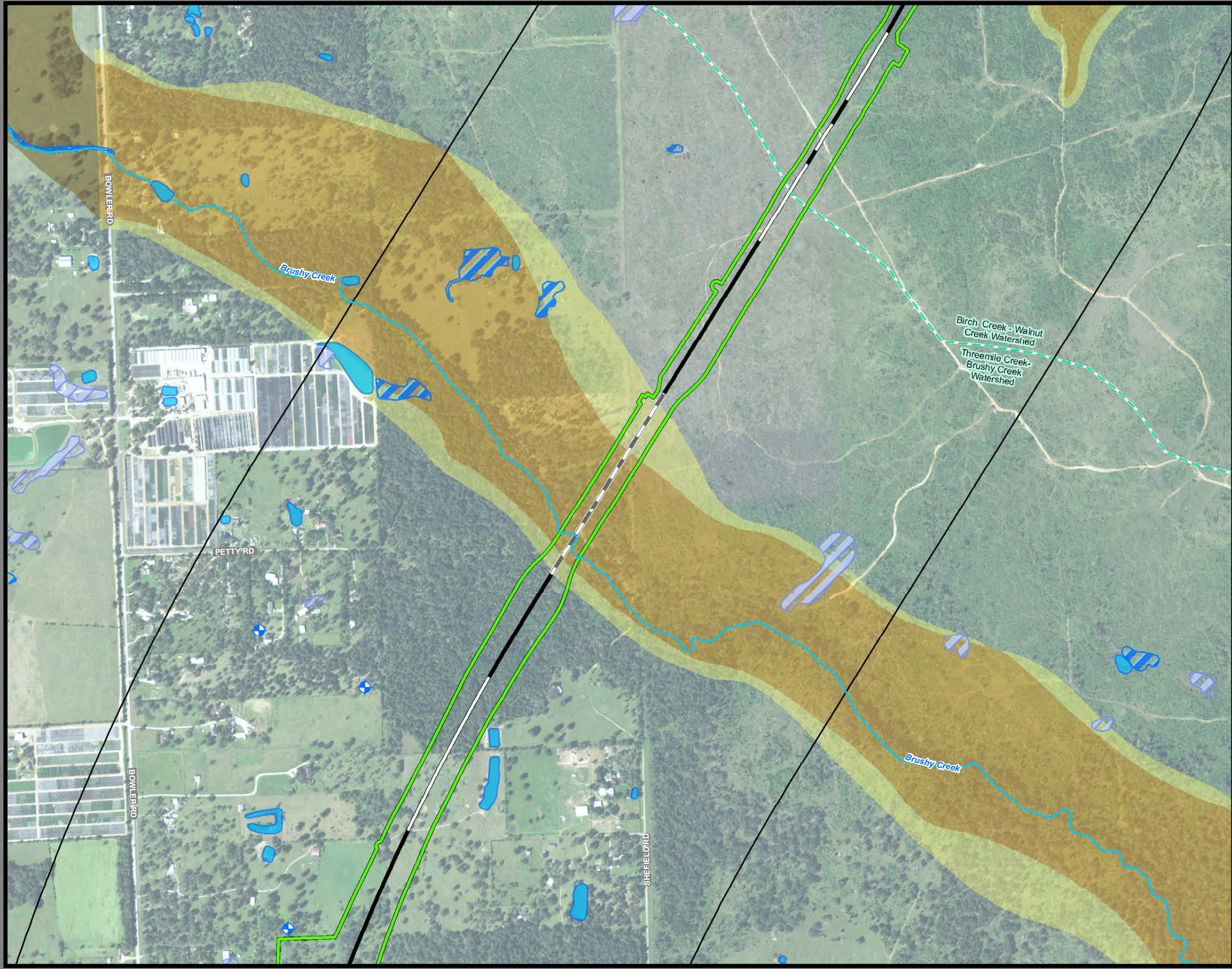


**Dallas to Houston High-Speed Rail  
Final Environmental Impact Statement**

**Appendix D:  
Natural Resources  
Mapbook Set 4 of 4**



**Federal Railroad  
Administration**



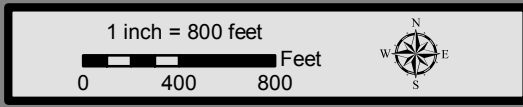
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 230 of 257**

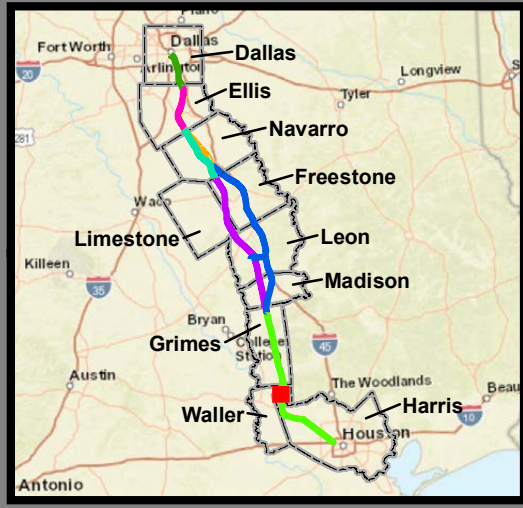
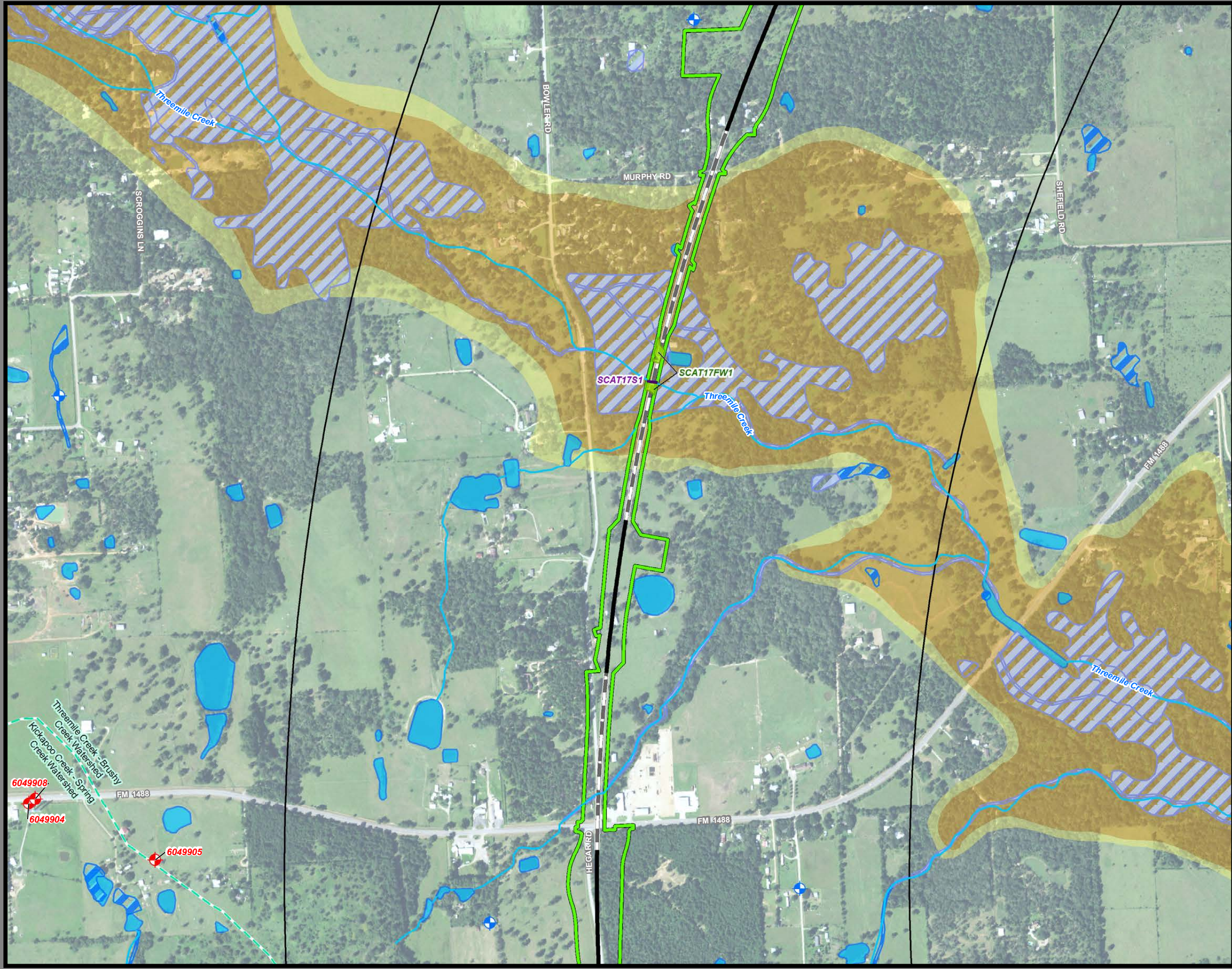
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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\*Floodplains in Freestone and Madison Counties were digitized from U.S. Dept of Housing and Urban Development 1978 and 1991 Flood Hazard Boundary Maps due to absence of digitally mapped FEMA floodplains.

**Data Sources:** County Boundaries - U.S. Census TIGER 2015; City Boundaries - TxDOT 2018; MSD - TCEQ 2018; USACE Project Areas - USACE 2018; Public Water Supply - EPA 2016; Impaired Waters - TCEQ 2016; Groundwater Wells - TWDB 2018; NHD/HUC12 - USGS 2018; Reservoirs - TWDB 2014; NWI - USFWS 2018; Floodplains - FEMA 2018; EOR - TPWD TXNDD 2019; ESRI World Street Map  
**Aerial Imagery:** USDA NAIP 2016





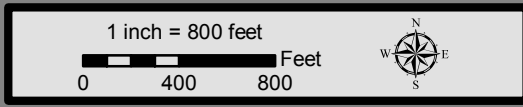
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
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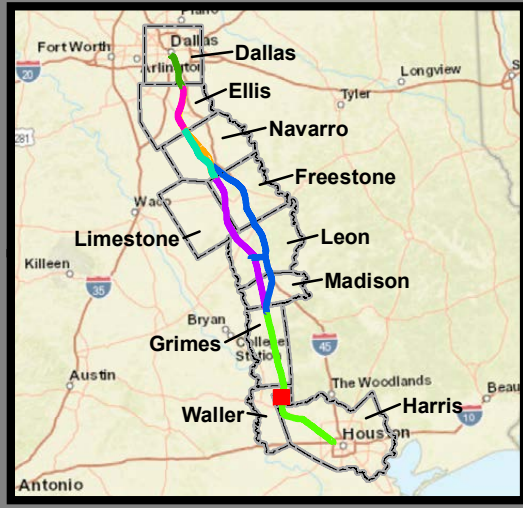
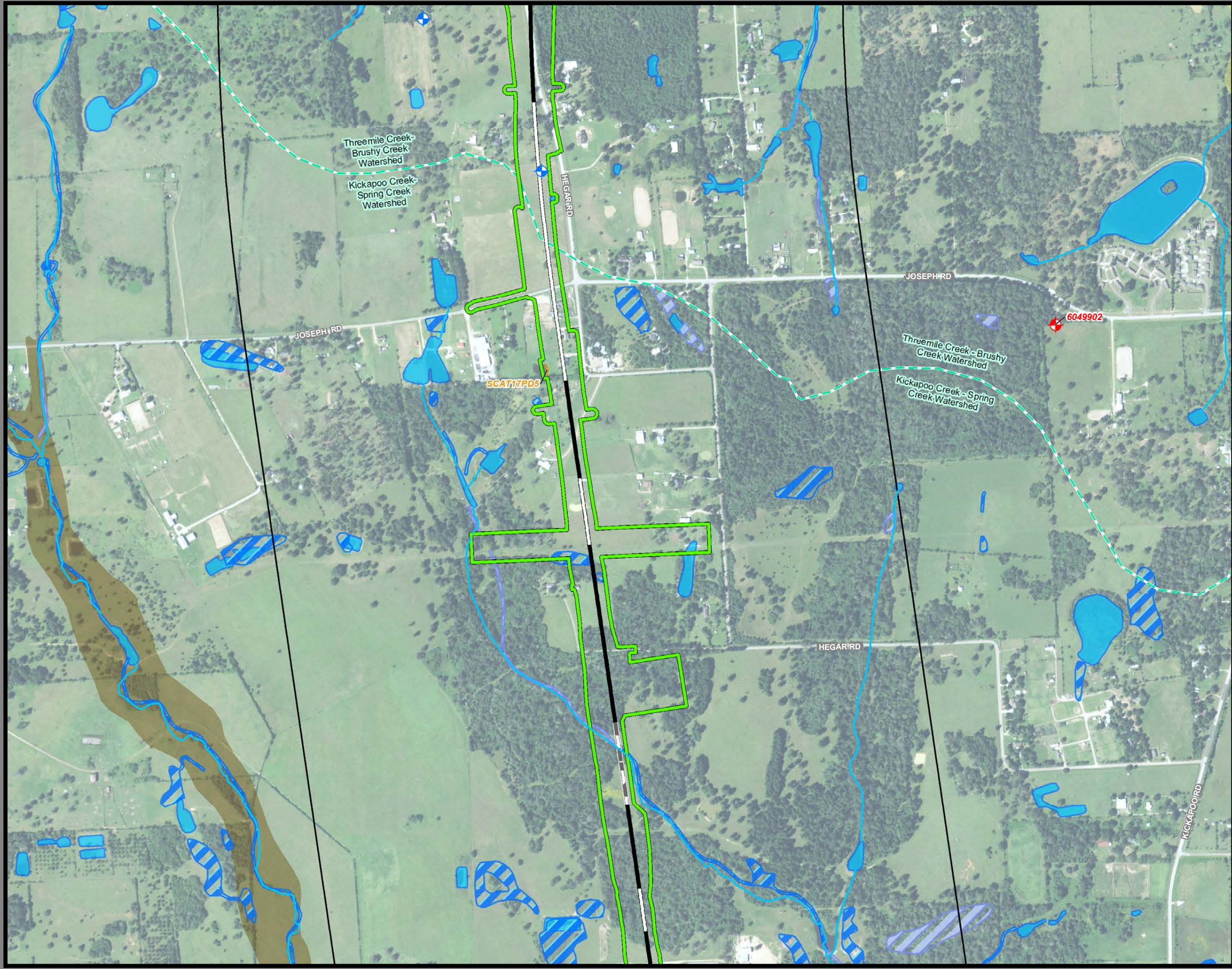
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





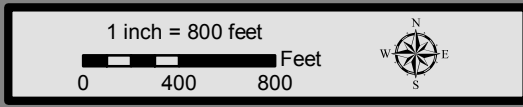
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 232 of 257**

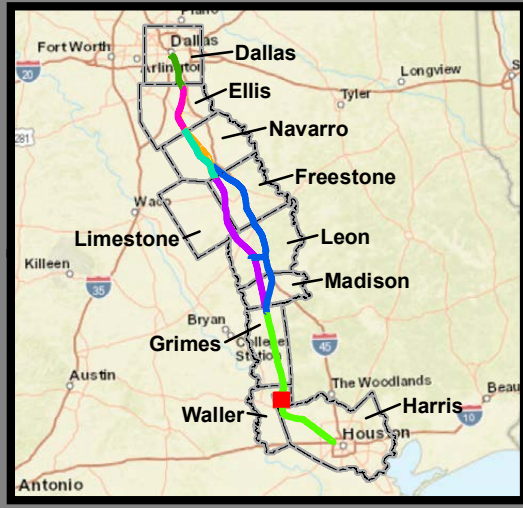
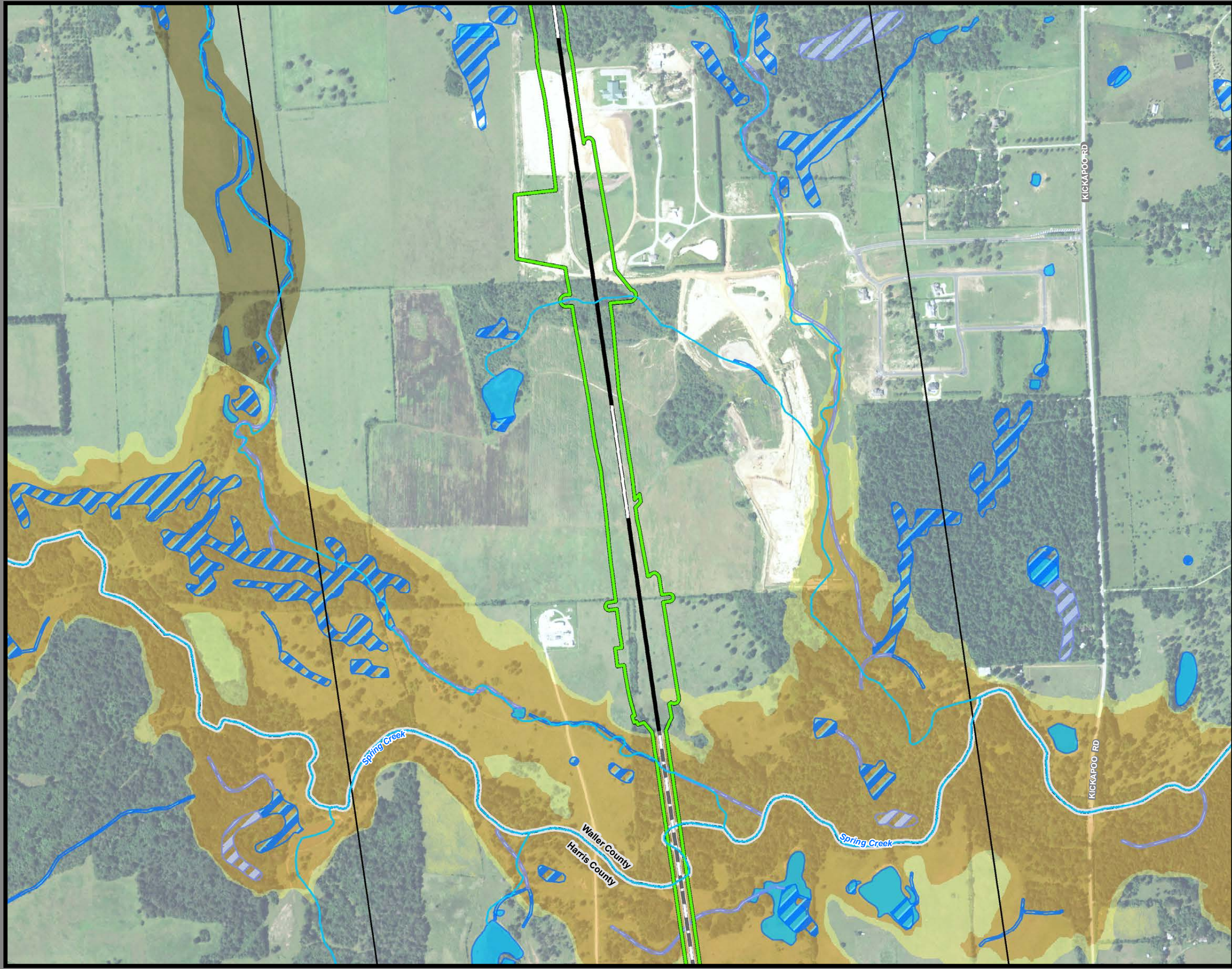
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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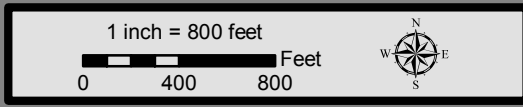
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 233 of 257**

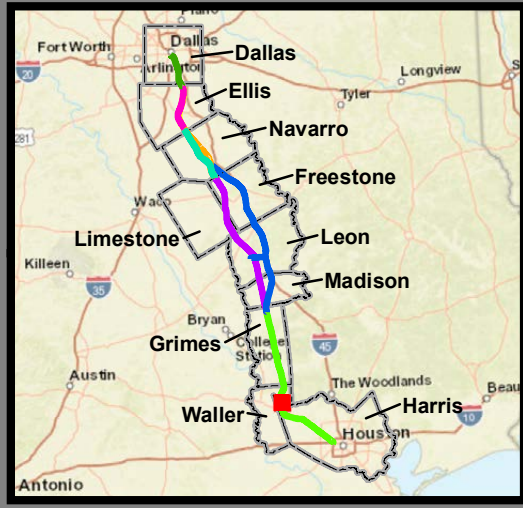
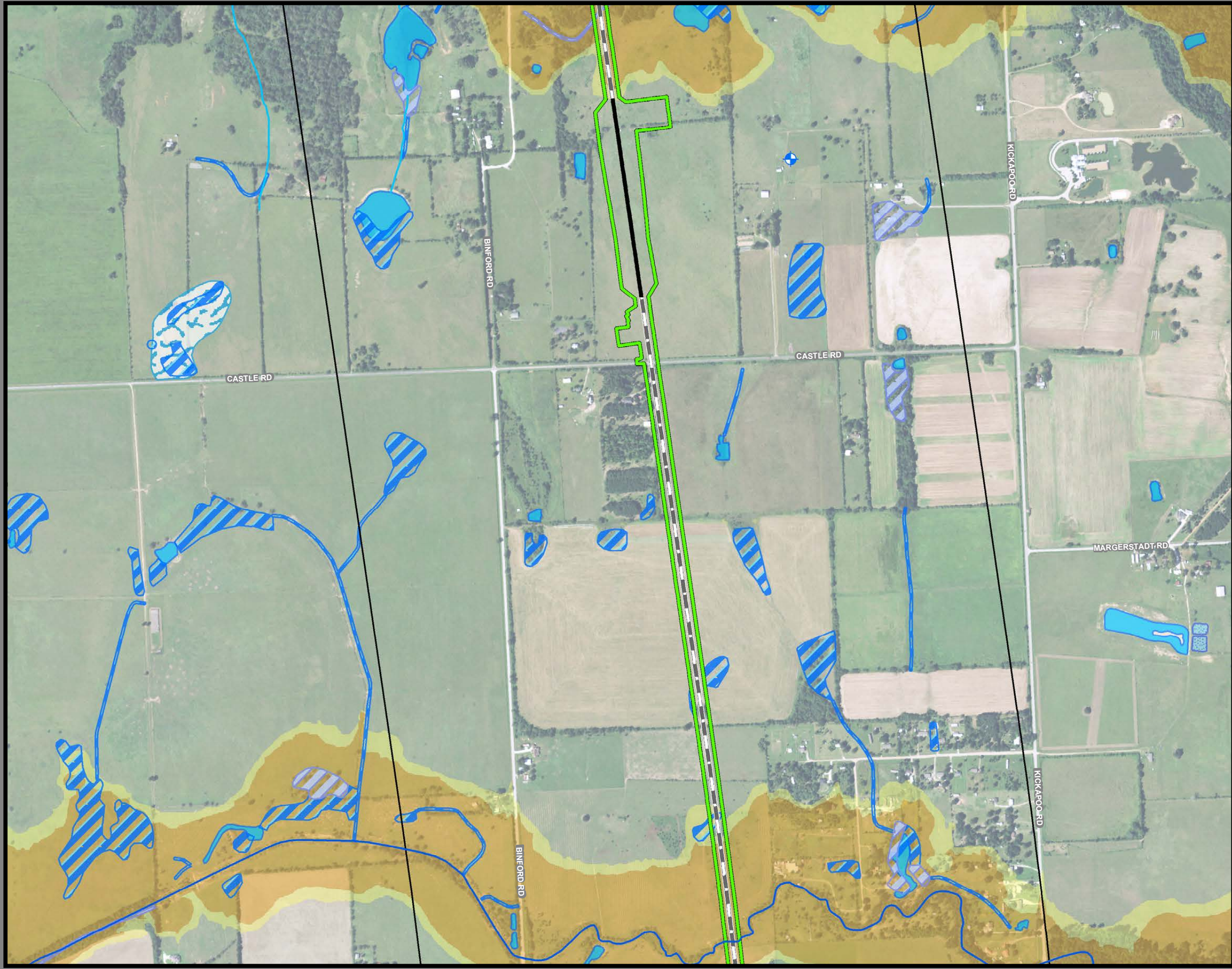
**Legend**

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display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Segment 5</li> <li><span style="border-bottom: 2px solid black; width: 10px; display: inline-block; margin-right: 5px;"></span> Viaduct</li> <li><span style="border-bottom: 2px solid black; width: 10px; display: inline-block; margin-right: 5px;"></span> Embankment</li> <li><span style="border-bottom: 2px solid black; width: 10px; display: inline-block; margin-right: 5px;"></span> Cut</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Half Mile Centerline Buffer</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> City Boundary</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> County Boundary</li> <li><span style="border-bottom: 1px solid black; width: 10px; display: inline-block; margin-right: 5px;"></span> Railroad</li> <li><span style="border: 1px solid black; 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height: 10px; margin-right: 5px;"></span> Record for Federally Protected Species</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> U.S. Army Corps of Engineers (USACE) Project Area</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Watershed (HUC 12) Boundary</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Public Water Supply</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px dashed orange; width: 10px; display: inline-block; margin-right: 5px;"></span> Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li><span style="border-bottom: 1px dashed red; width: 10px; display: inline-block; margin-right: 5px;"></span> Impaired Waters</li> <li><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></li> <li><span style="background-color: #D2B48C; border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> A - 1%</li> <li><span style="background-color: #FFDAB9; border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> AE - 1%</li> <li><span style="background-color: #FFDAB9; border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> AO - 1%</li> <li><span style="background-color: #FFDAB9; border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> X - 0.2%</li> <li><b>Field-Collected Data</b></li> <li><span style="border-bottom: 1px solid purple; width: 10px; display: inline-block; margin-right: 5px;"></span> Perennial Stream/River</li> <li><span style="border-bottom: 1px solid purple; width: 10px; 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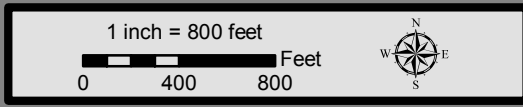
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
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Sheet 234 of 257**

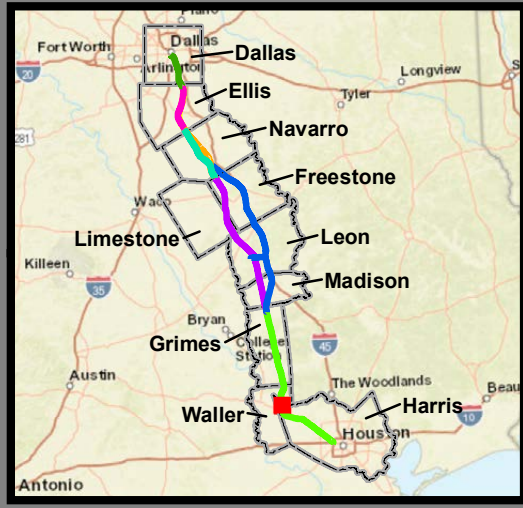
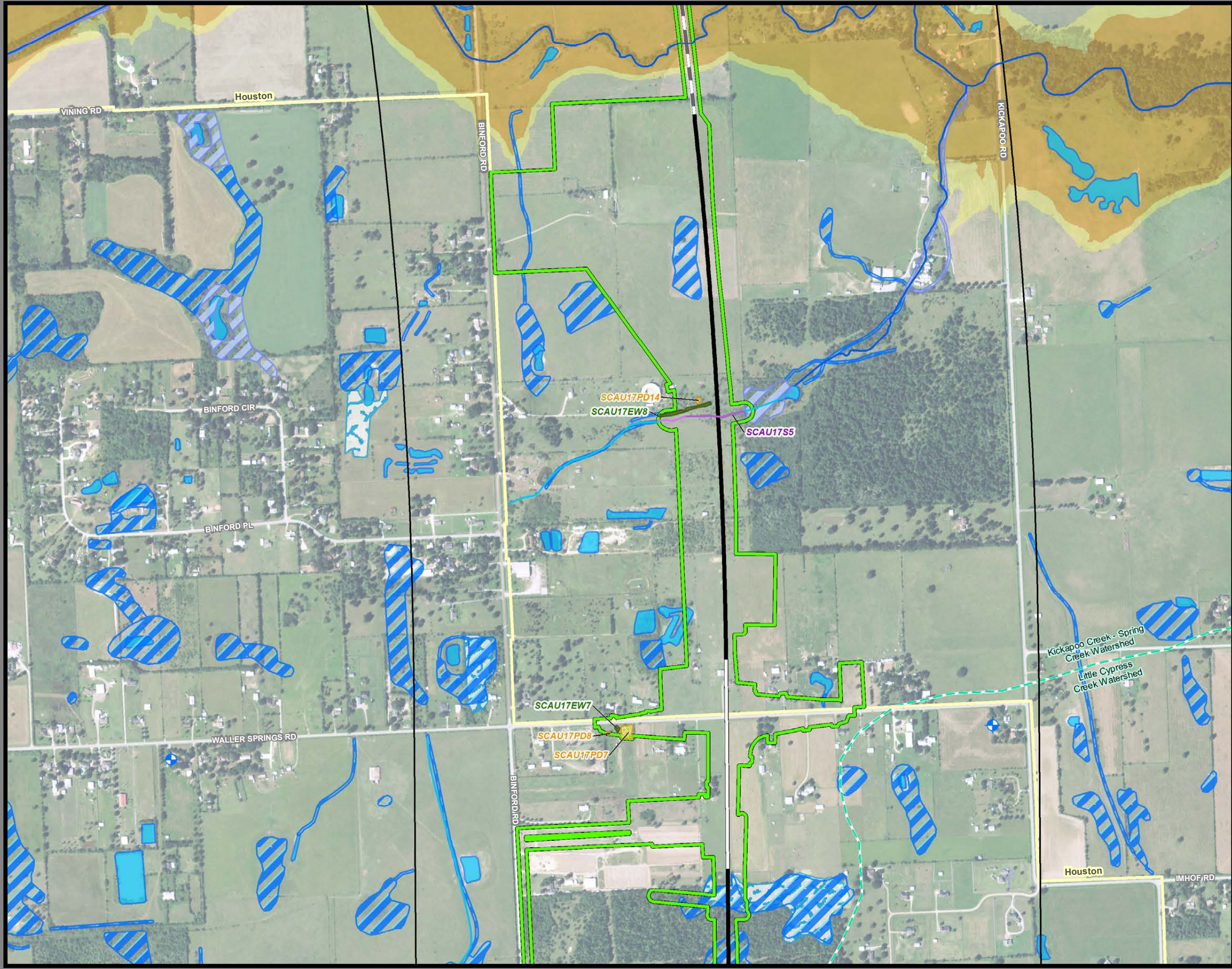
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> </ul> <p><b>Element of Occurrence</b></p> <ul style="list-style-type: none"> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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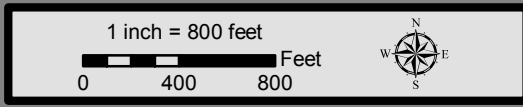
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 235 of 257**

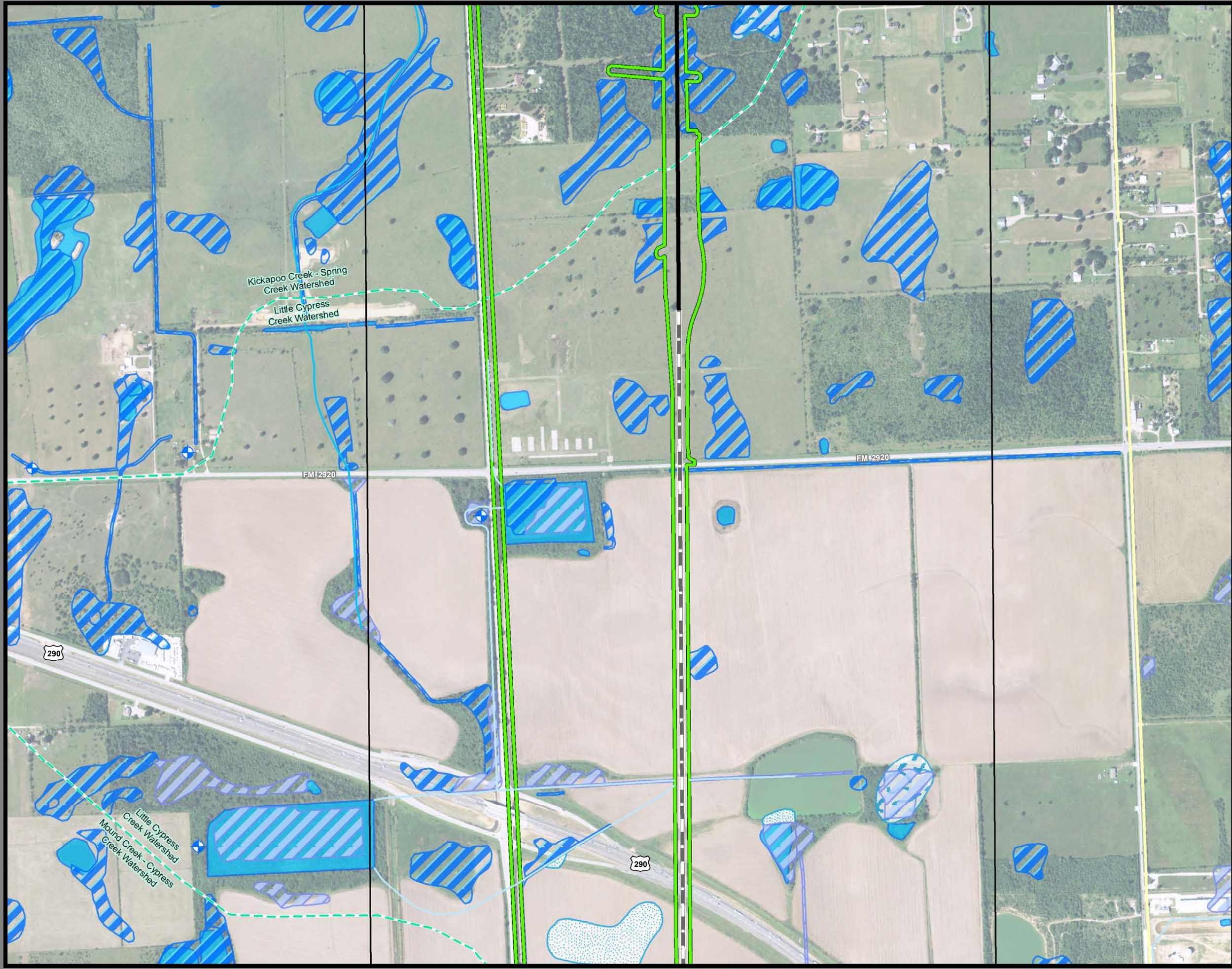
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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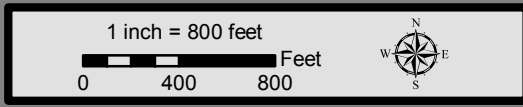
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 236 of 257**

**Legend**

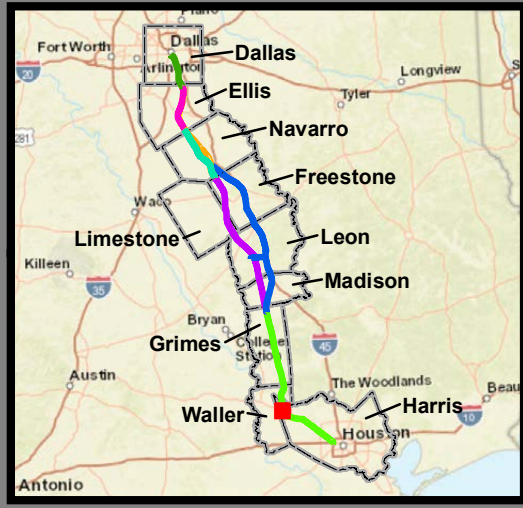
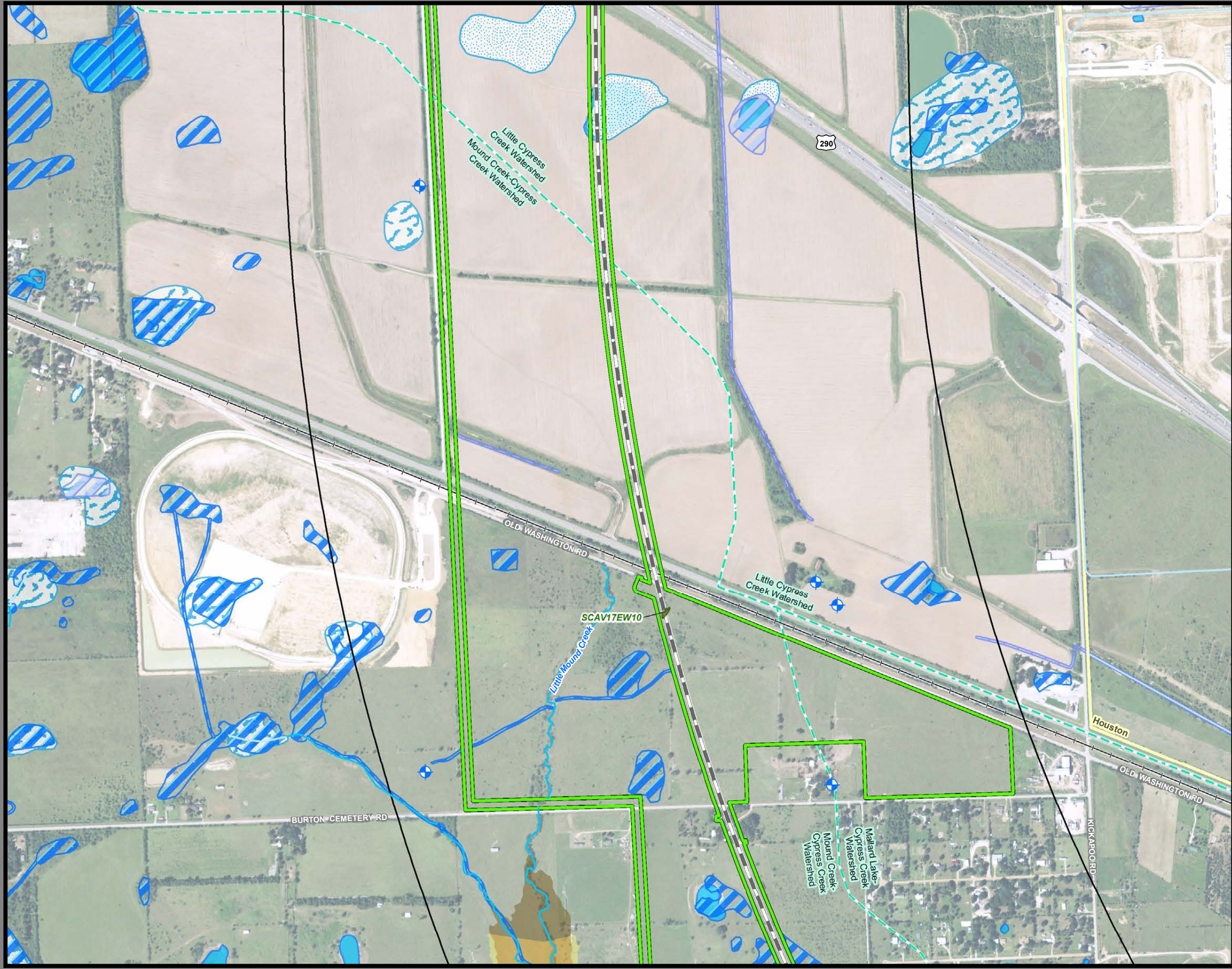
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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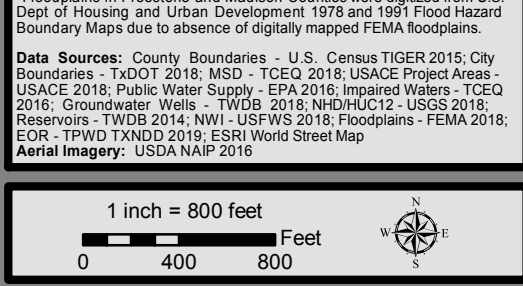
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 237 of 257**

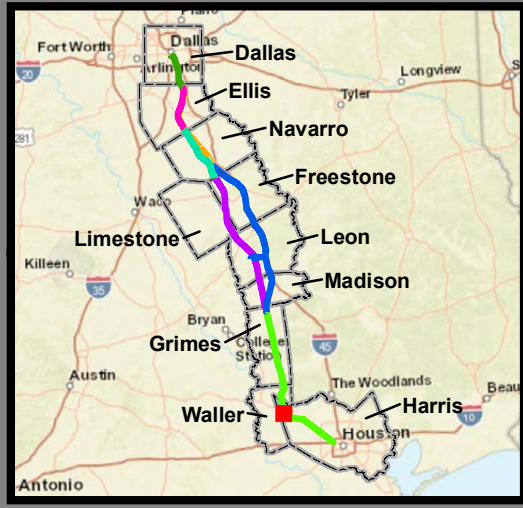
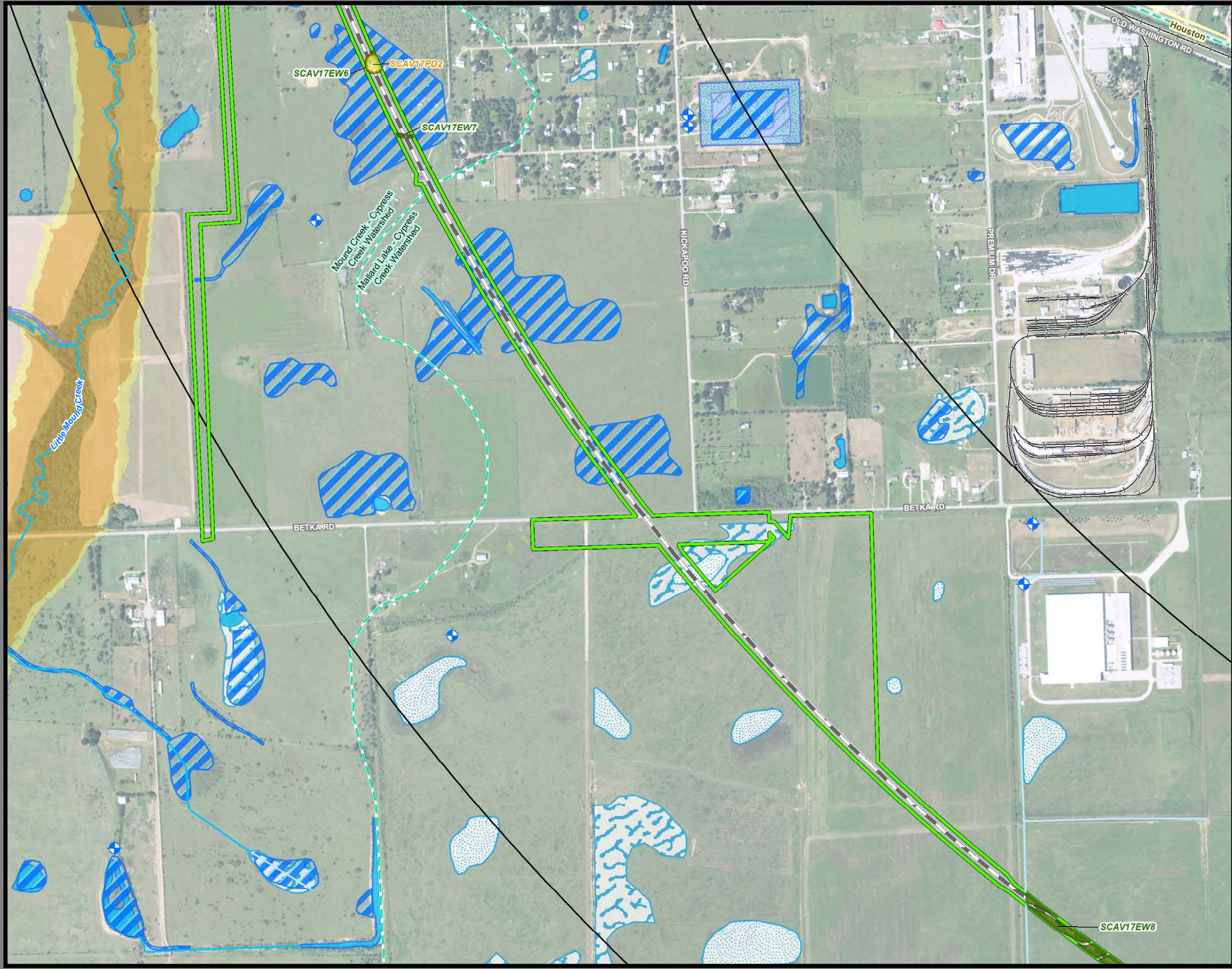
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> </ul> <p><b>Element of Occurrence</b></p> <ul style="list-style-type: none"> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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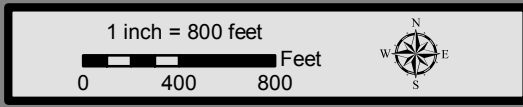
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 238 of 257**

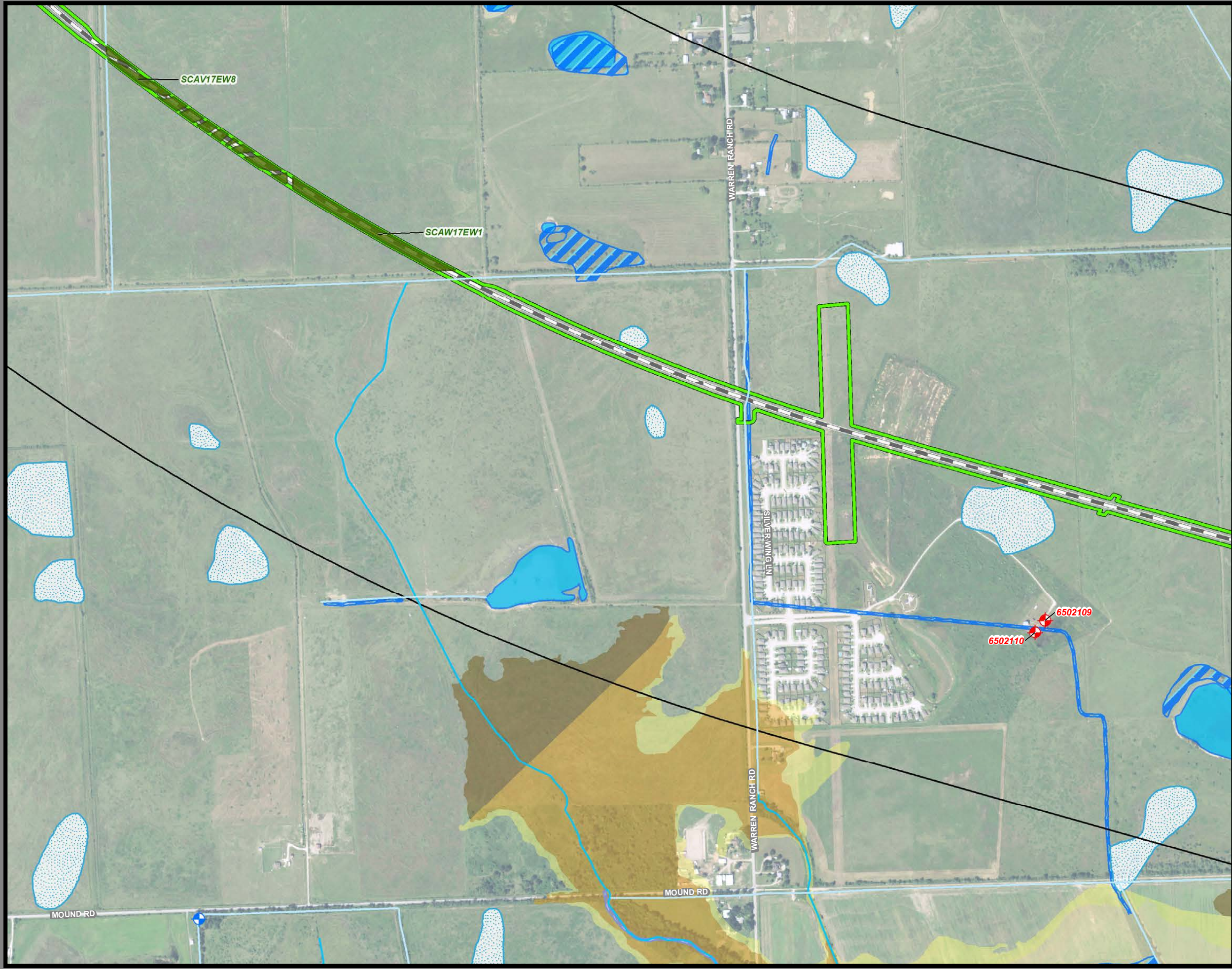
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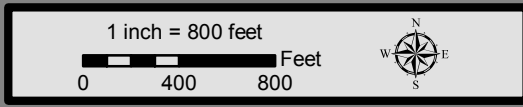
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
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Sheet 239 of 257**

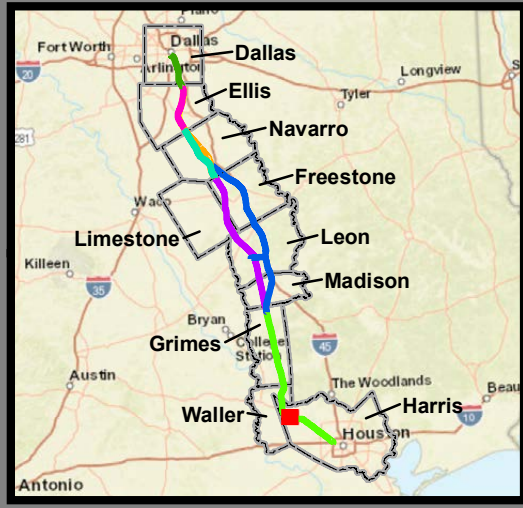
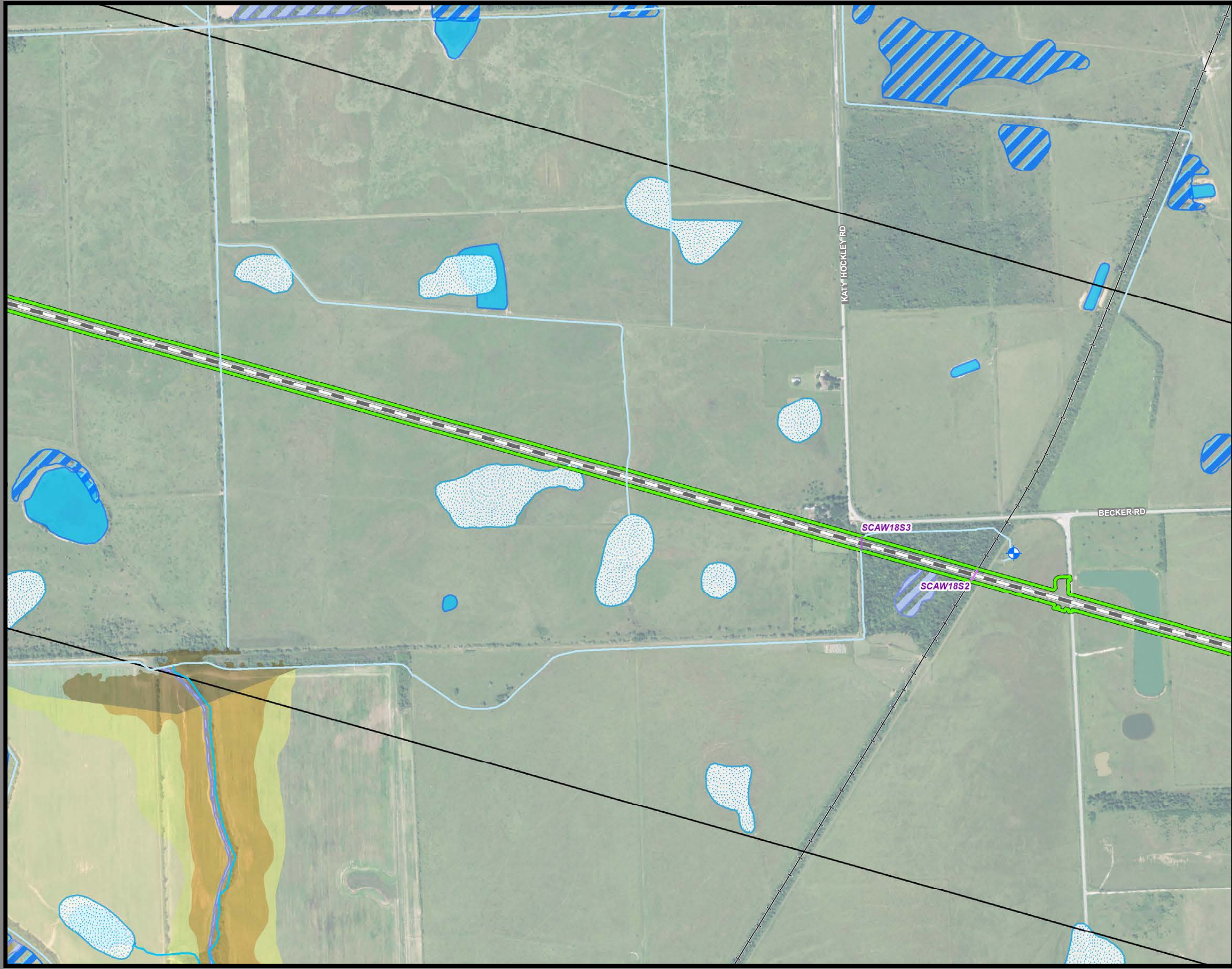
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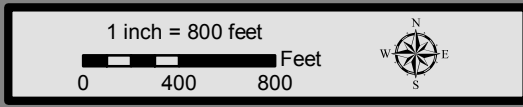
**Dallas to Houston  
High-Speed Rail Project  
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Sheet 240 of 257**

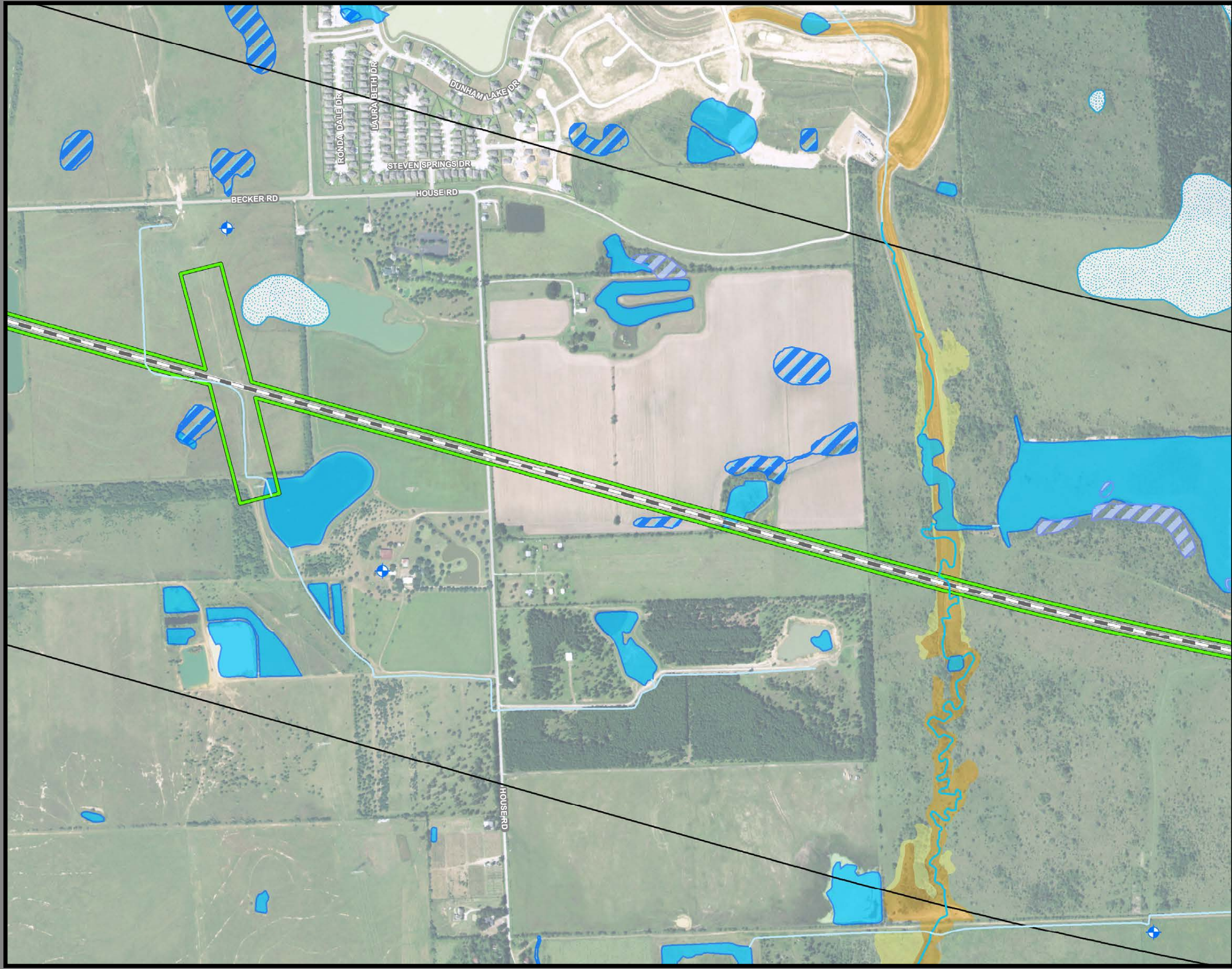
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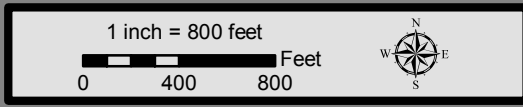
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
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Sheet 241 of 257**

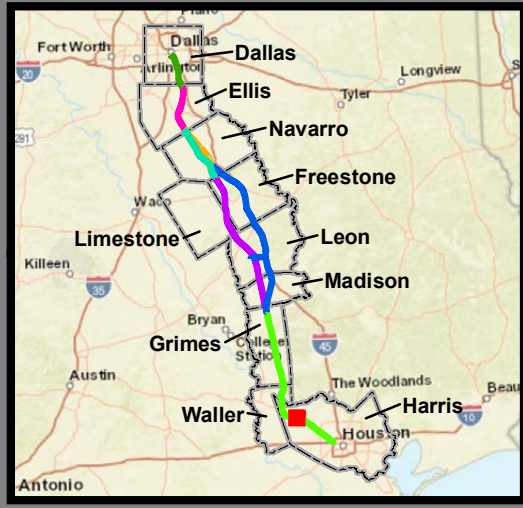
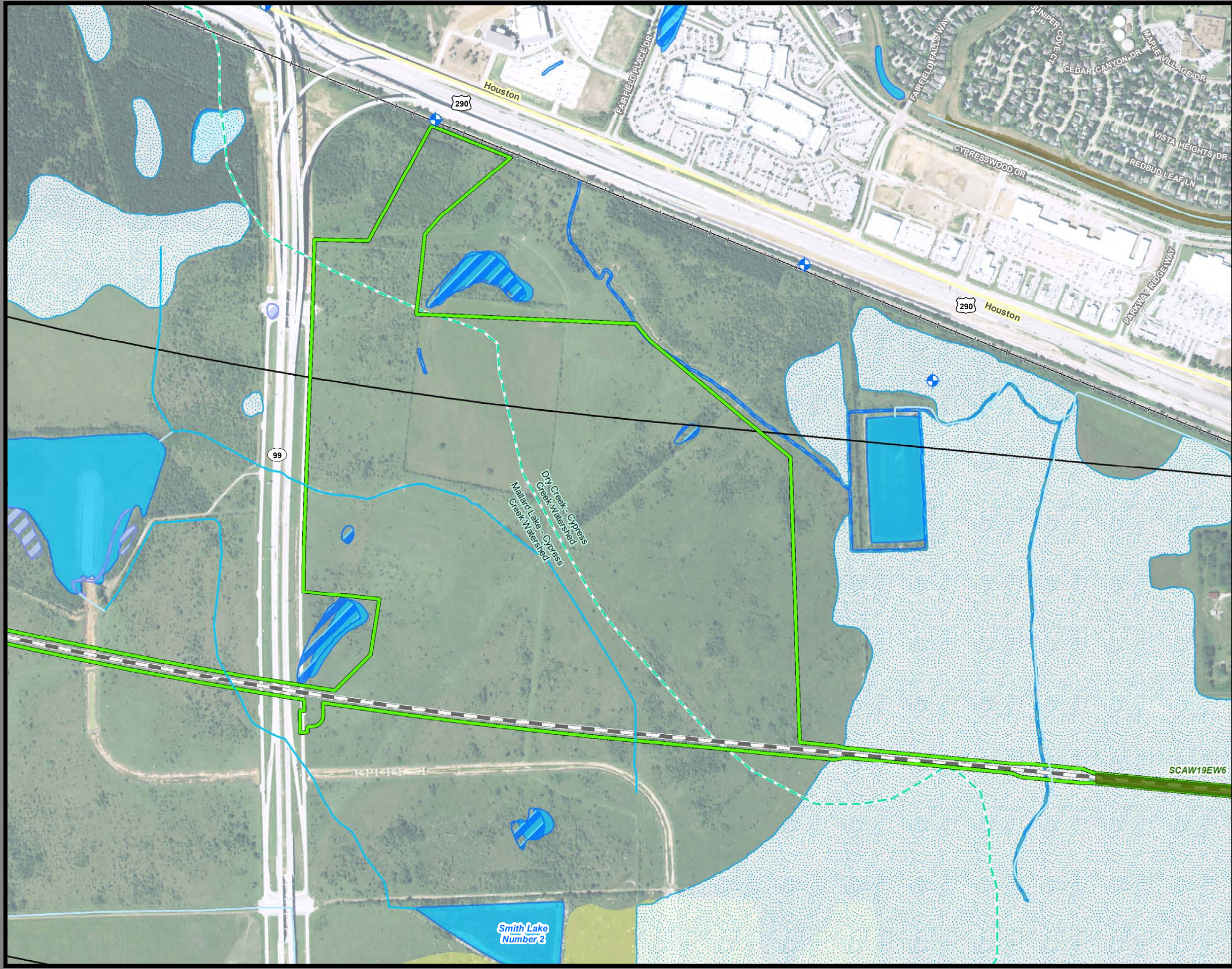
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





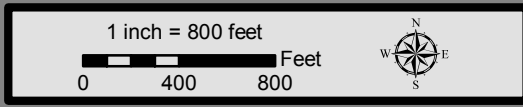
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 242 of 257**

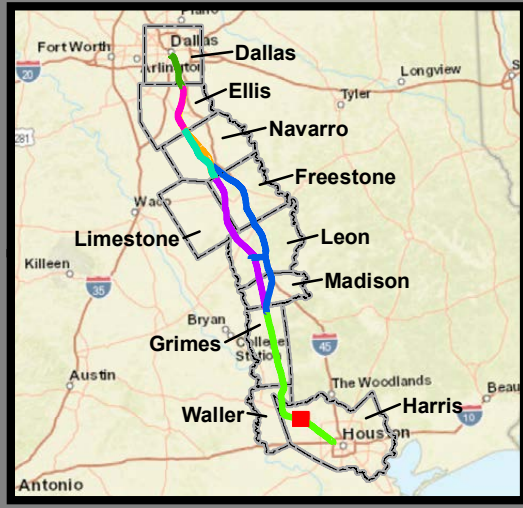
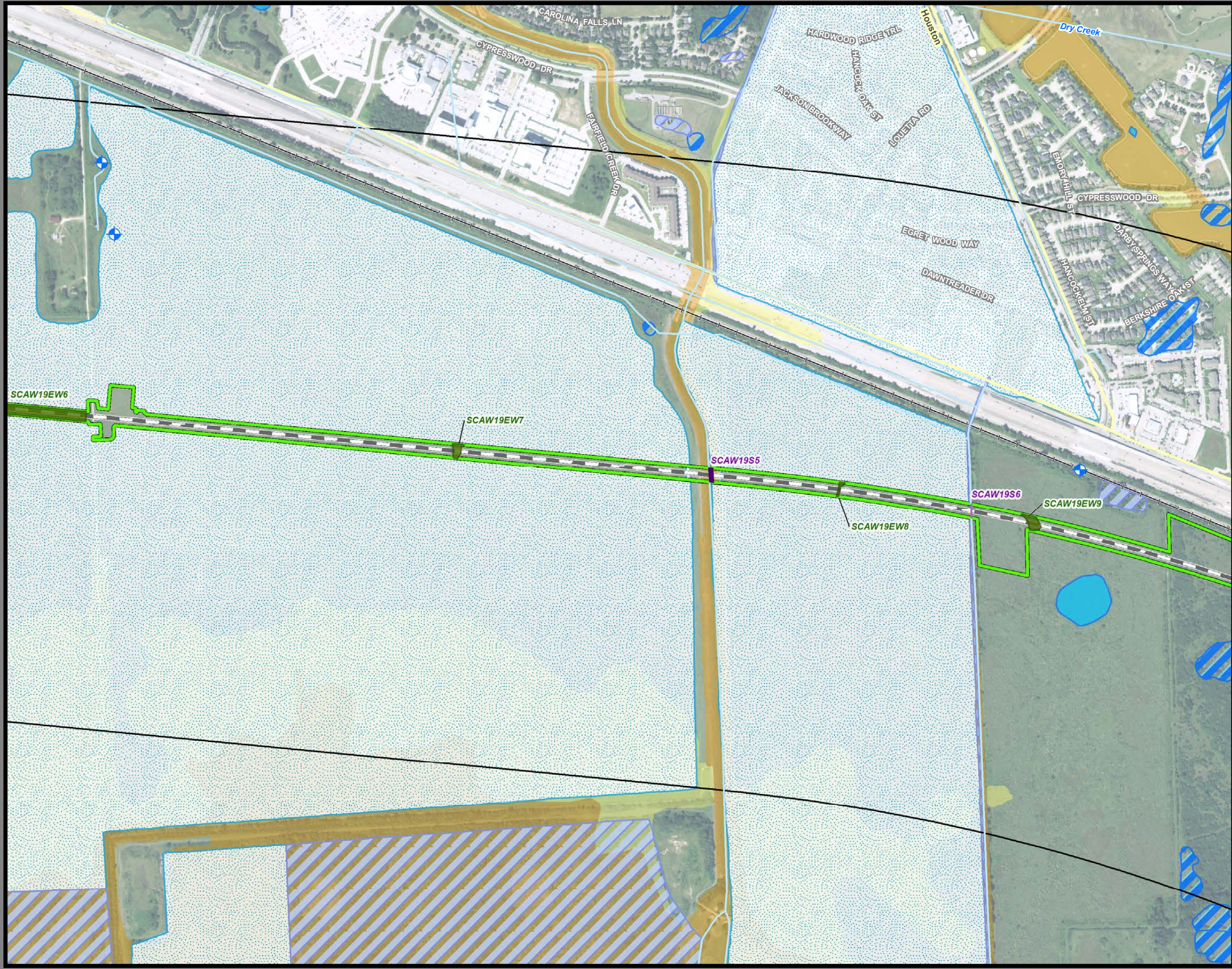
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> </ul> <p><b>Element of Occurrence</b></p> <ul style="list-style-type: none"> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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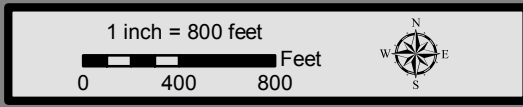
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 243 of 257**

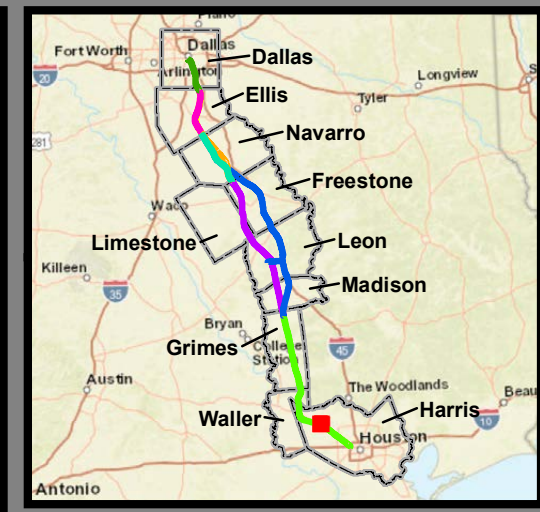
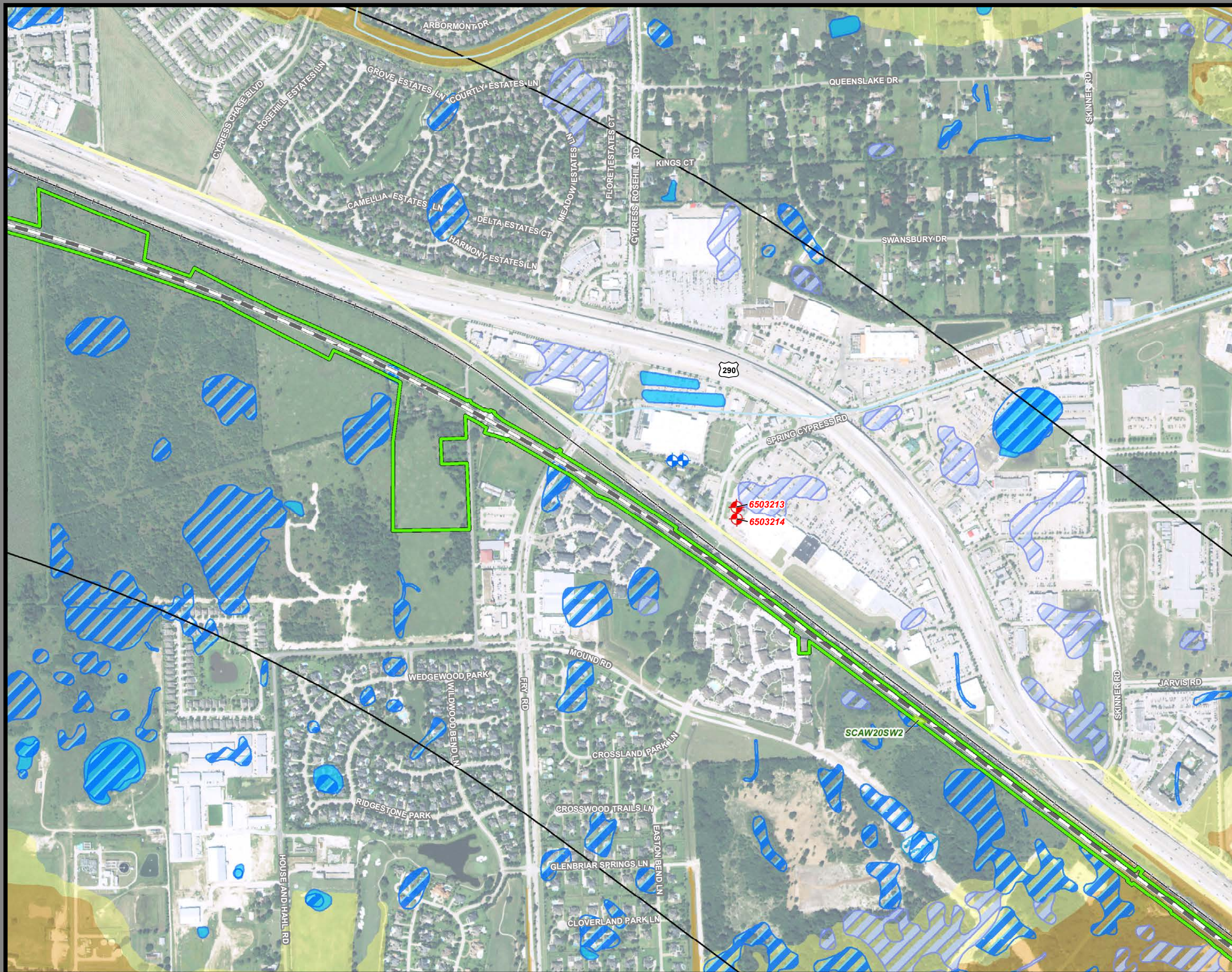
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> </ul> <p><b>Element of Occurrence</b></p> <ul style="list-style-type: none"> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





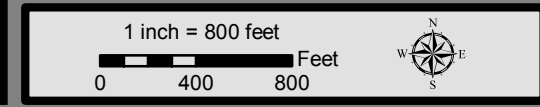
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 244 of 257**

**Legend**

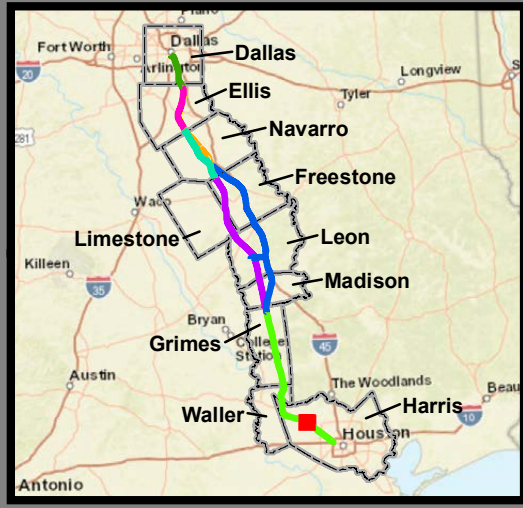
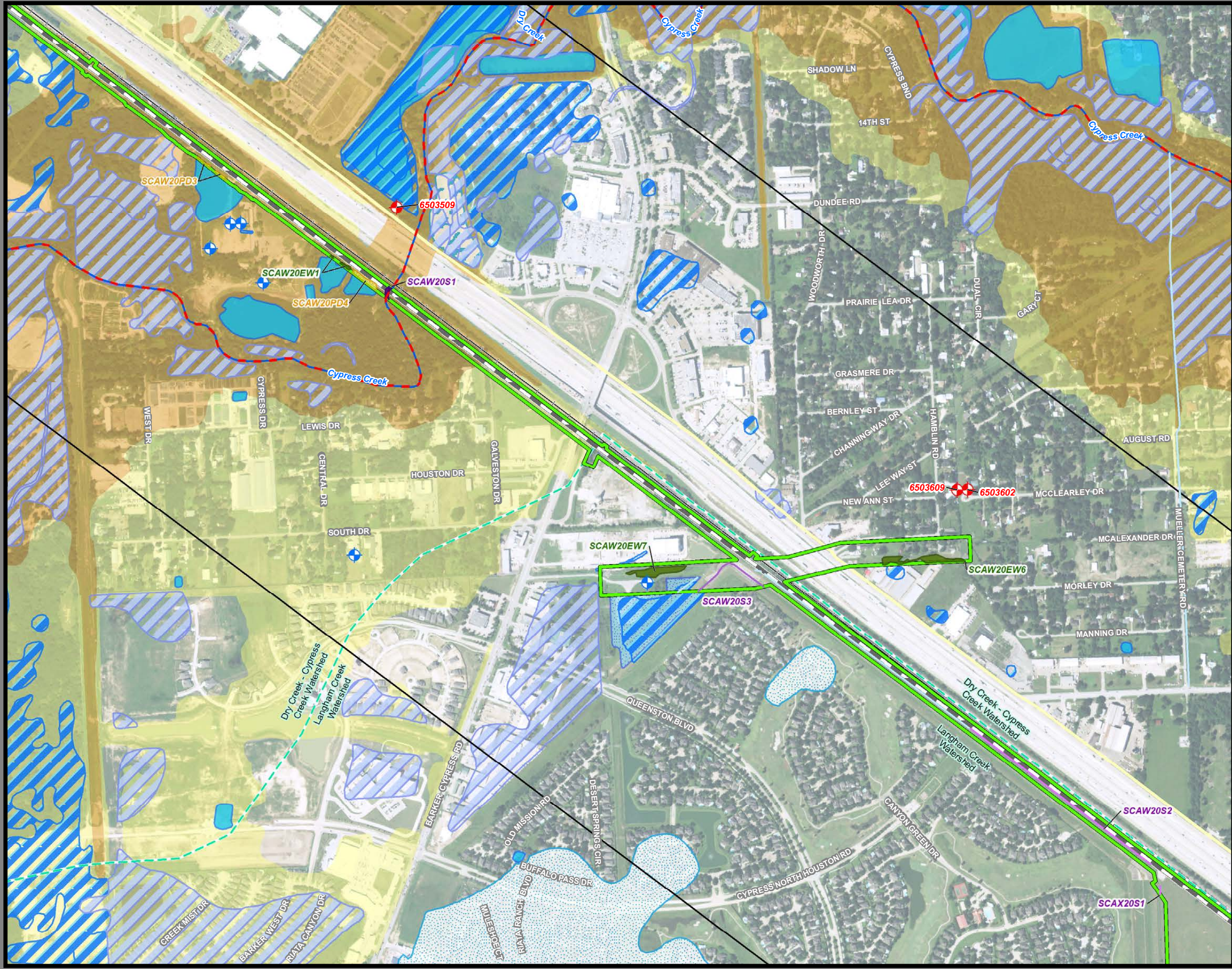
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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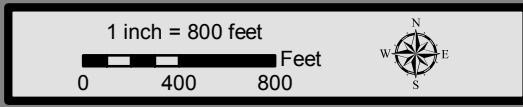
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 245 of 257**

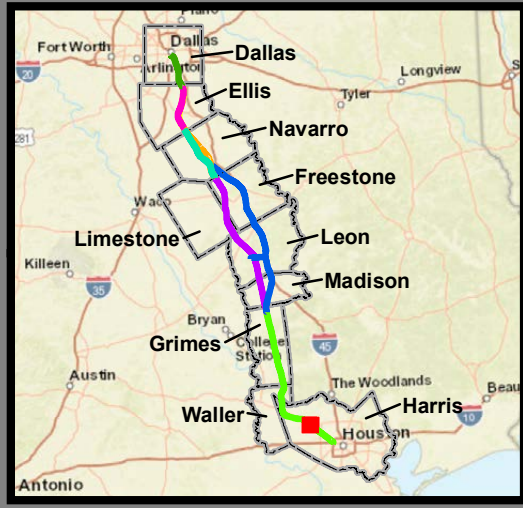
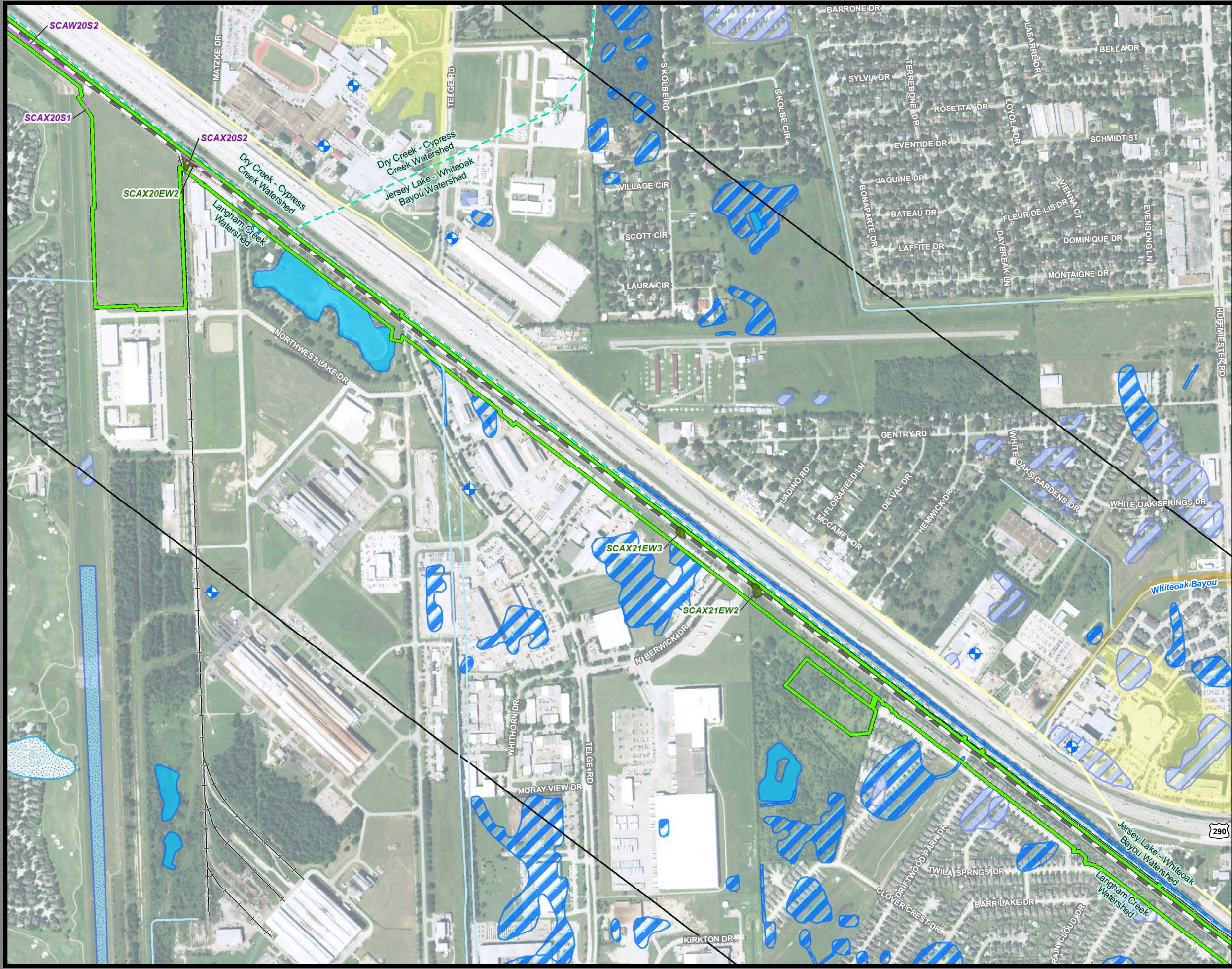
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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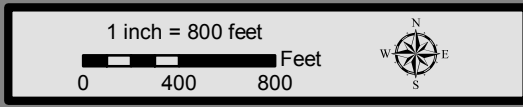
**Dallas to Houston  
High-Speed Rail Project  
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Sheet 246 of 257**

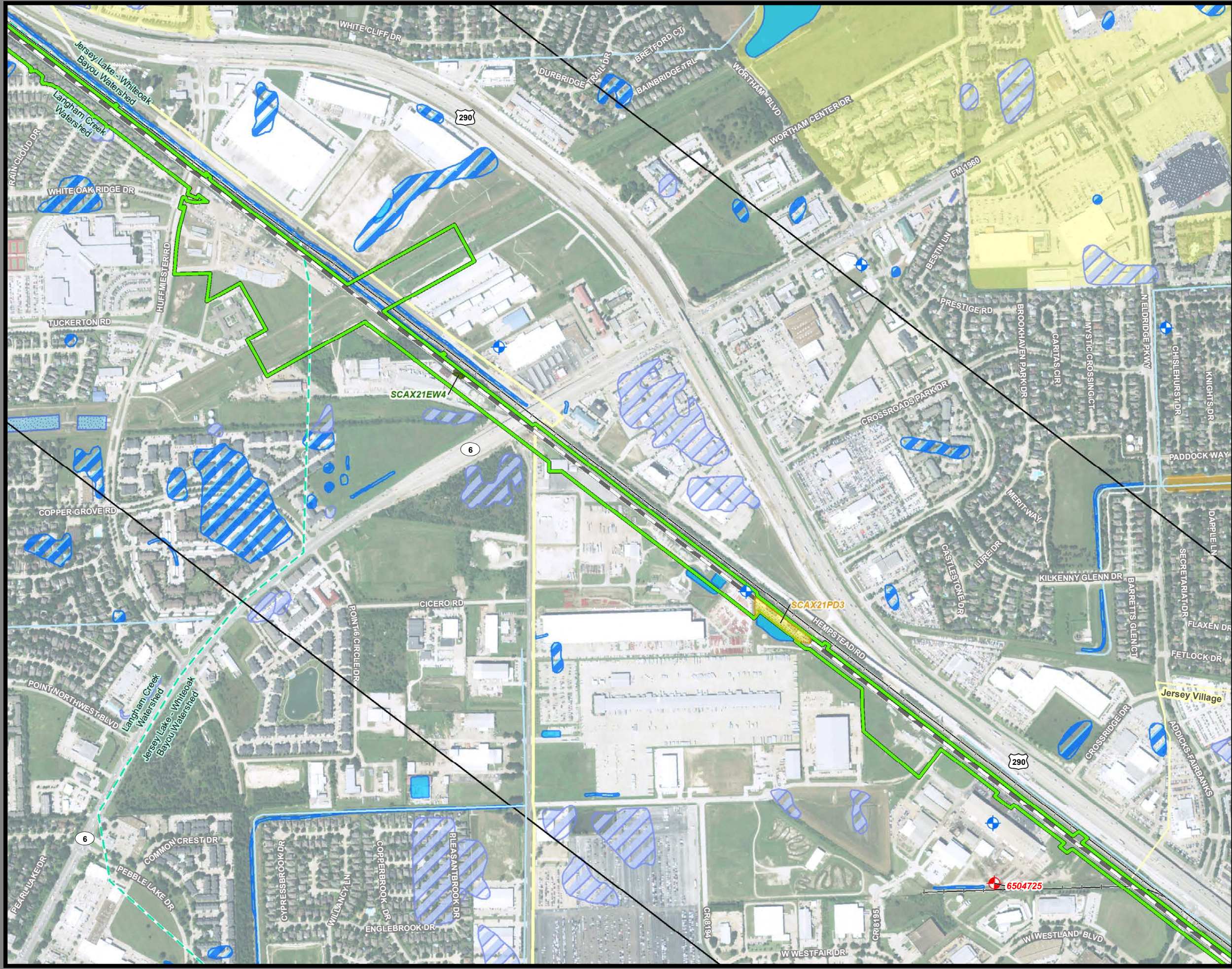
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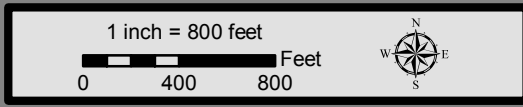
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 247 of 257**

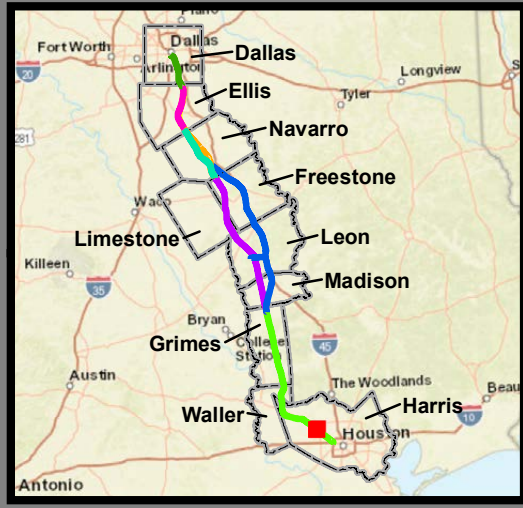
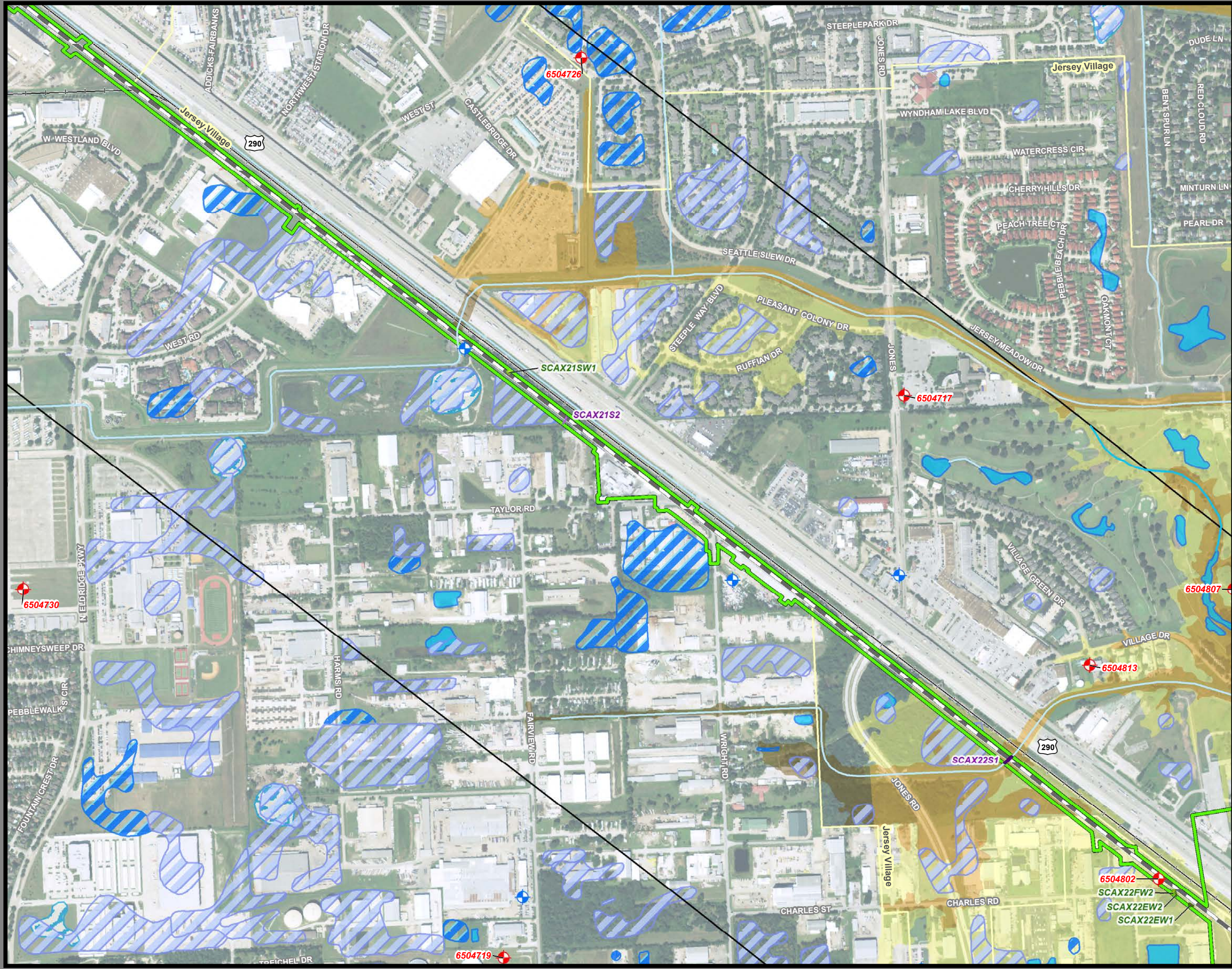
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 248 of 257**

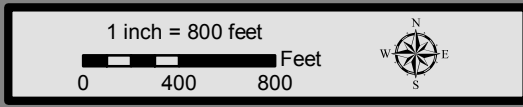
**Legend**

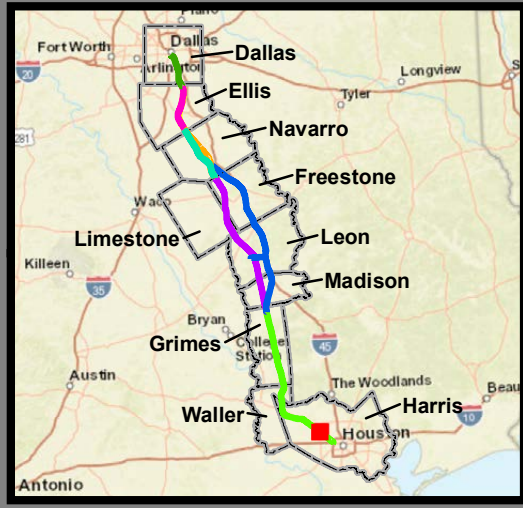
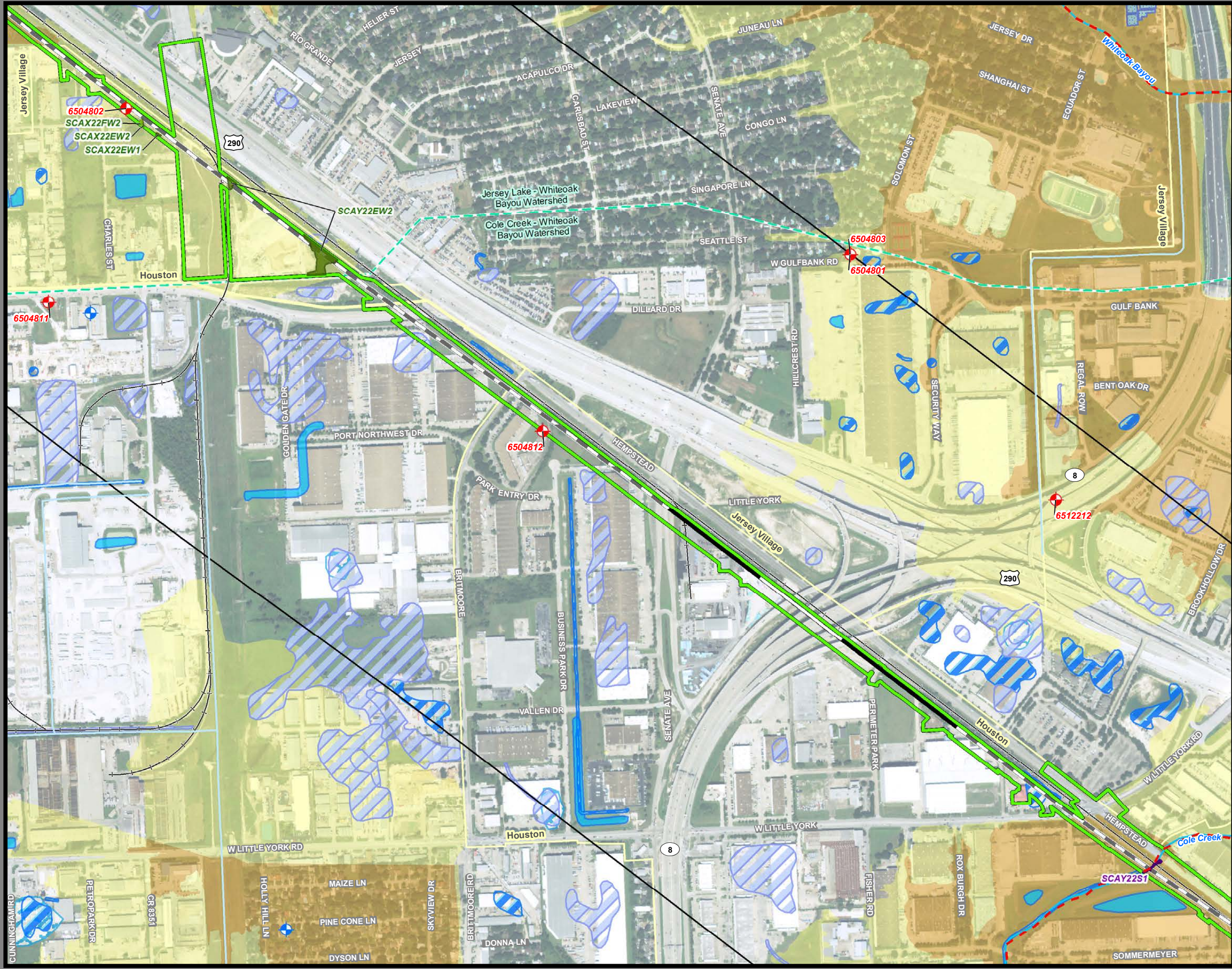
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





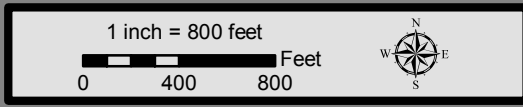
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 249 of 257**

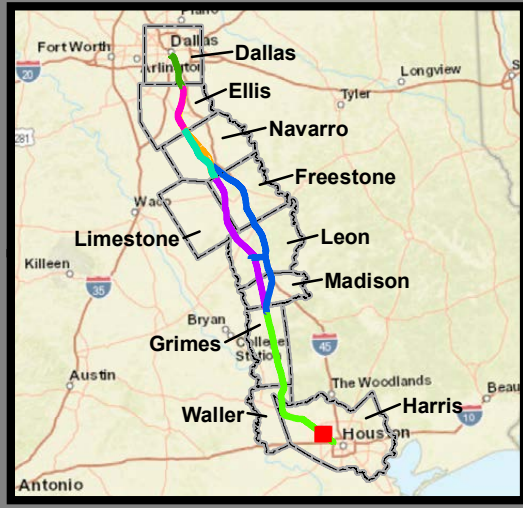
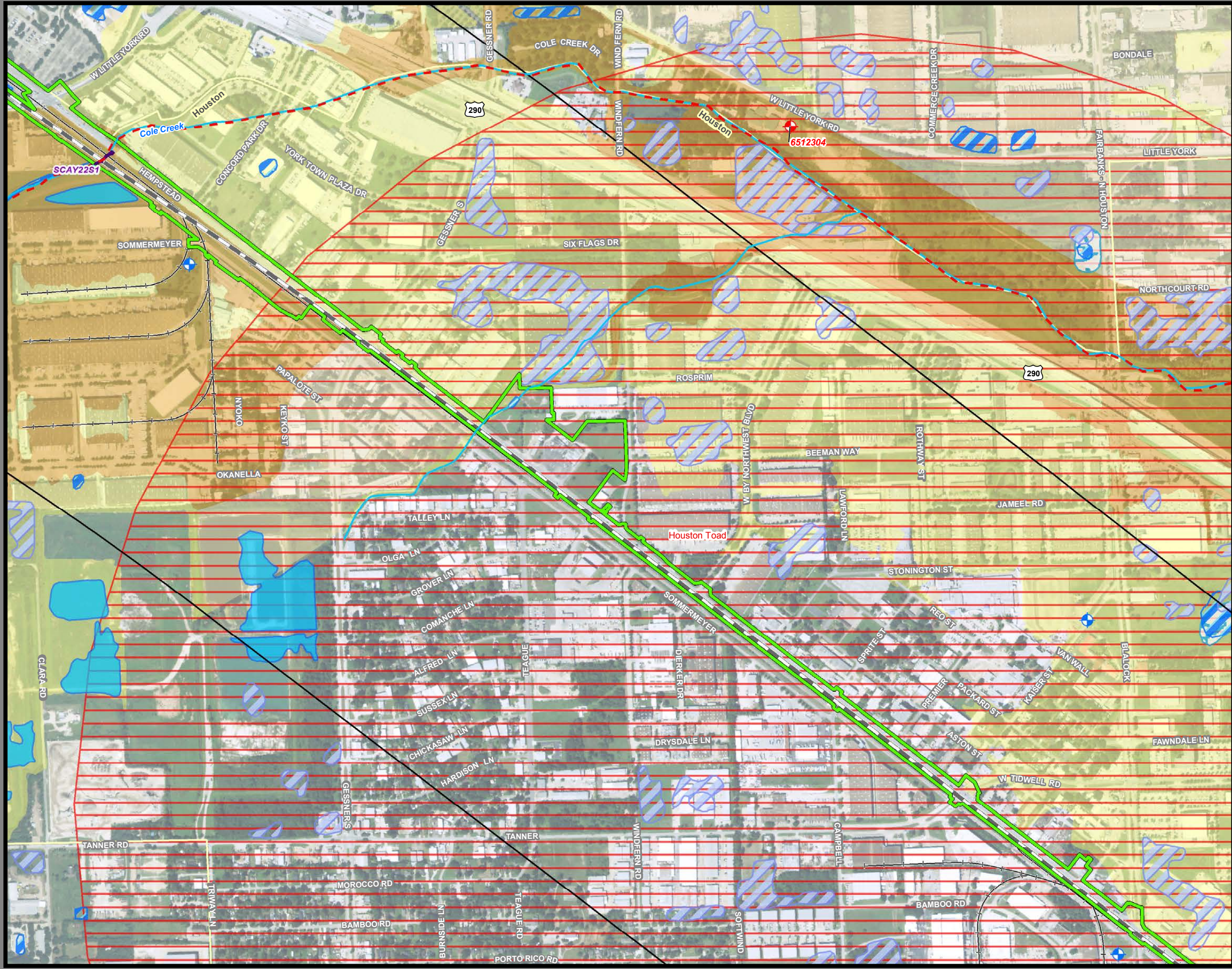
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 250 of 257**

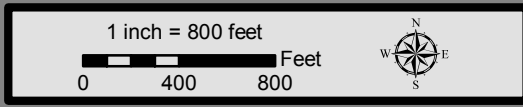
**Legend**

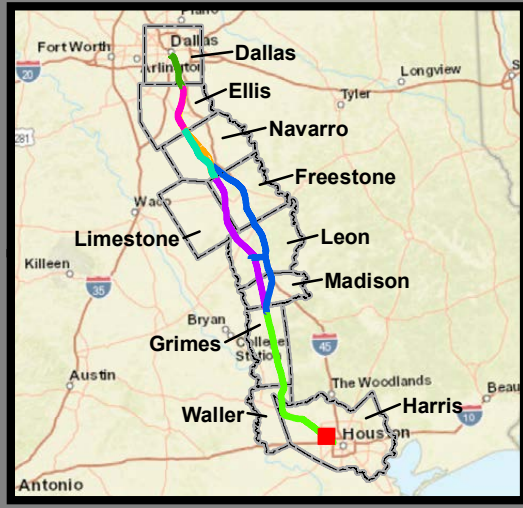
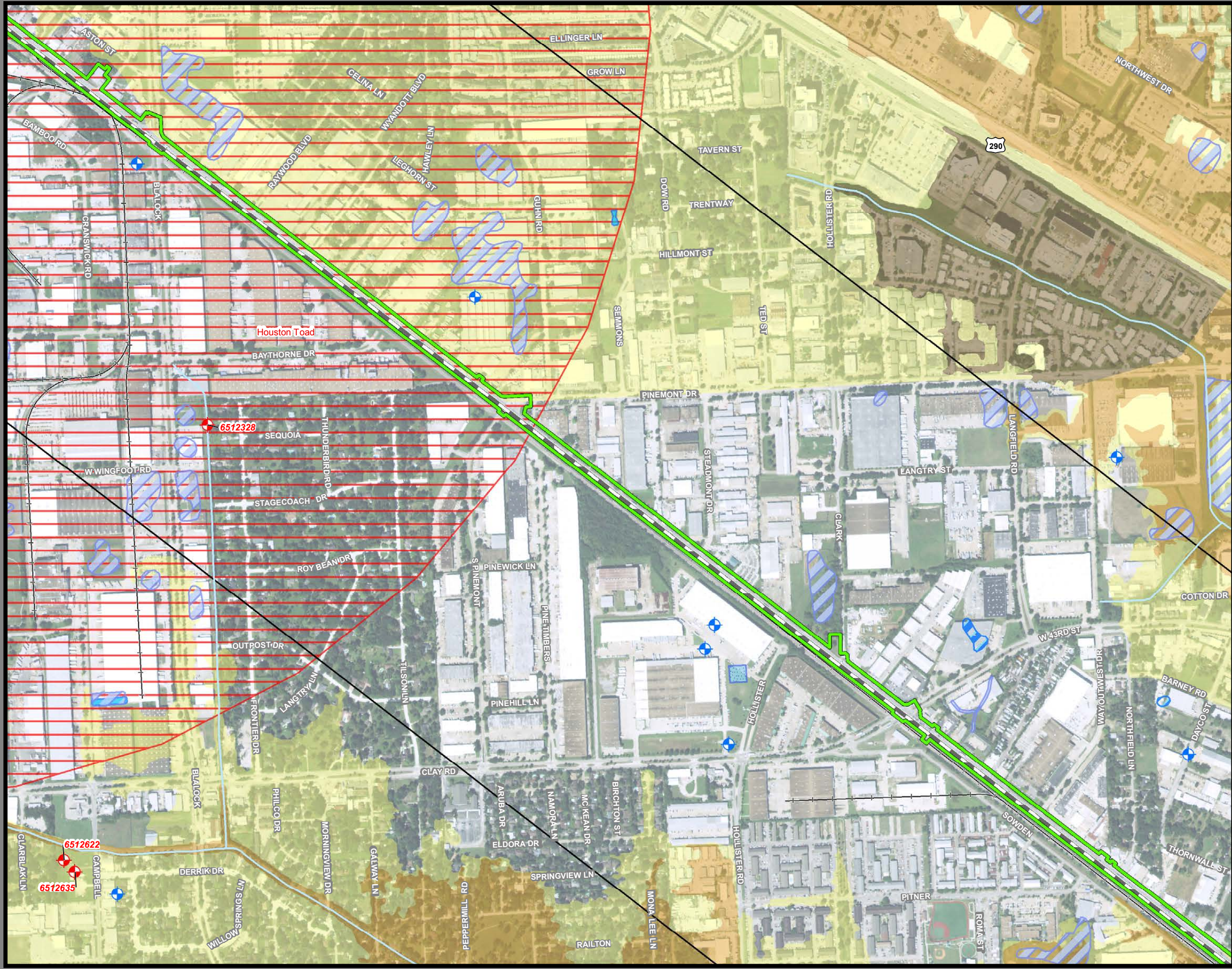
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





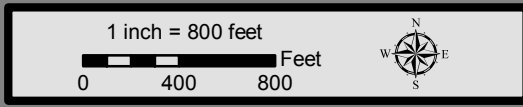
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 251 of 257**

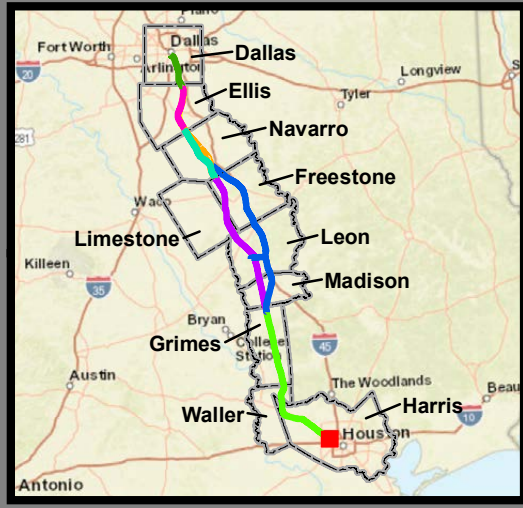
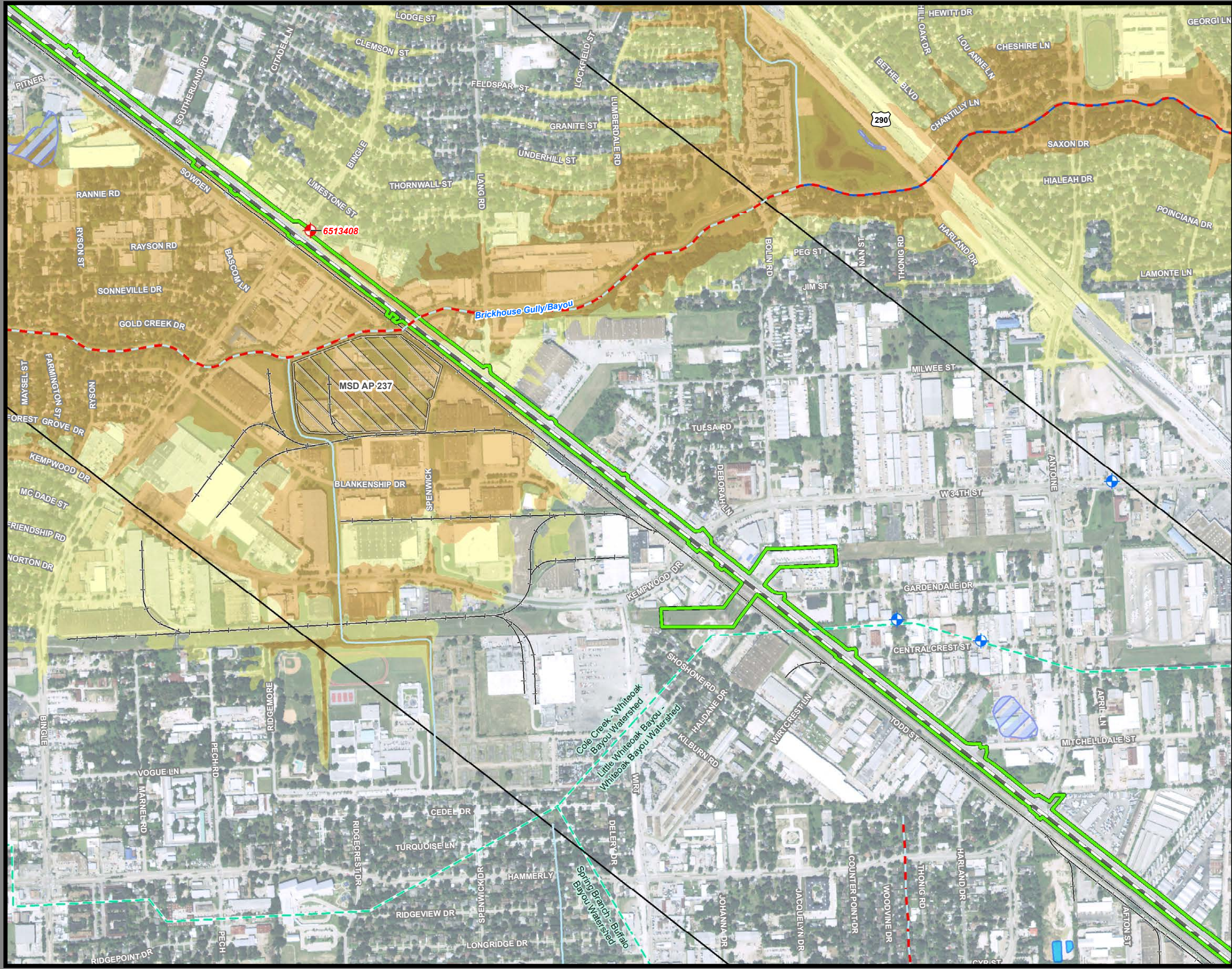
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





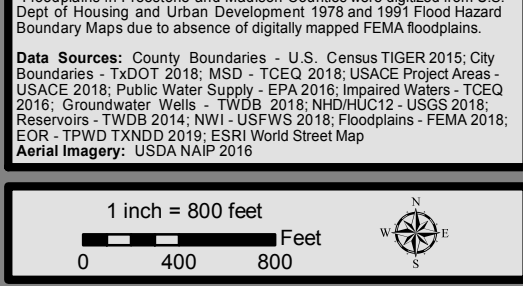
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5  
Sheet 252 of 257**

**Legend**

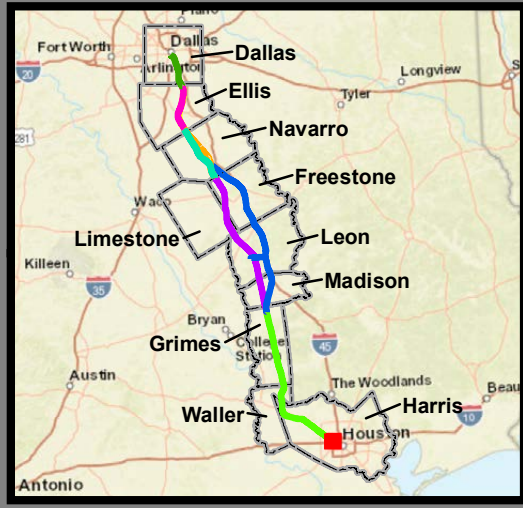
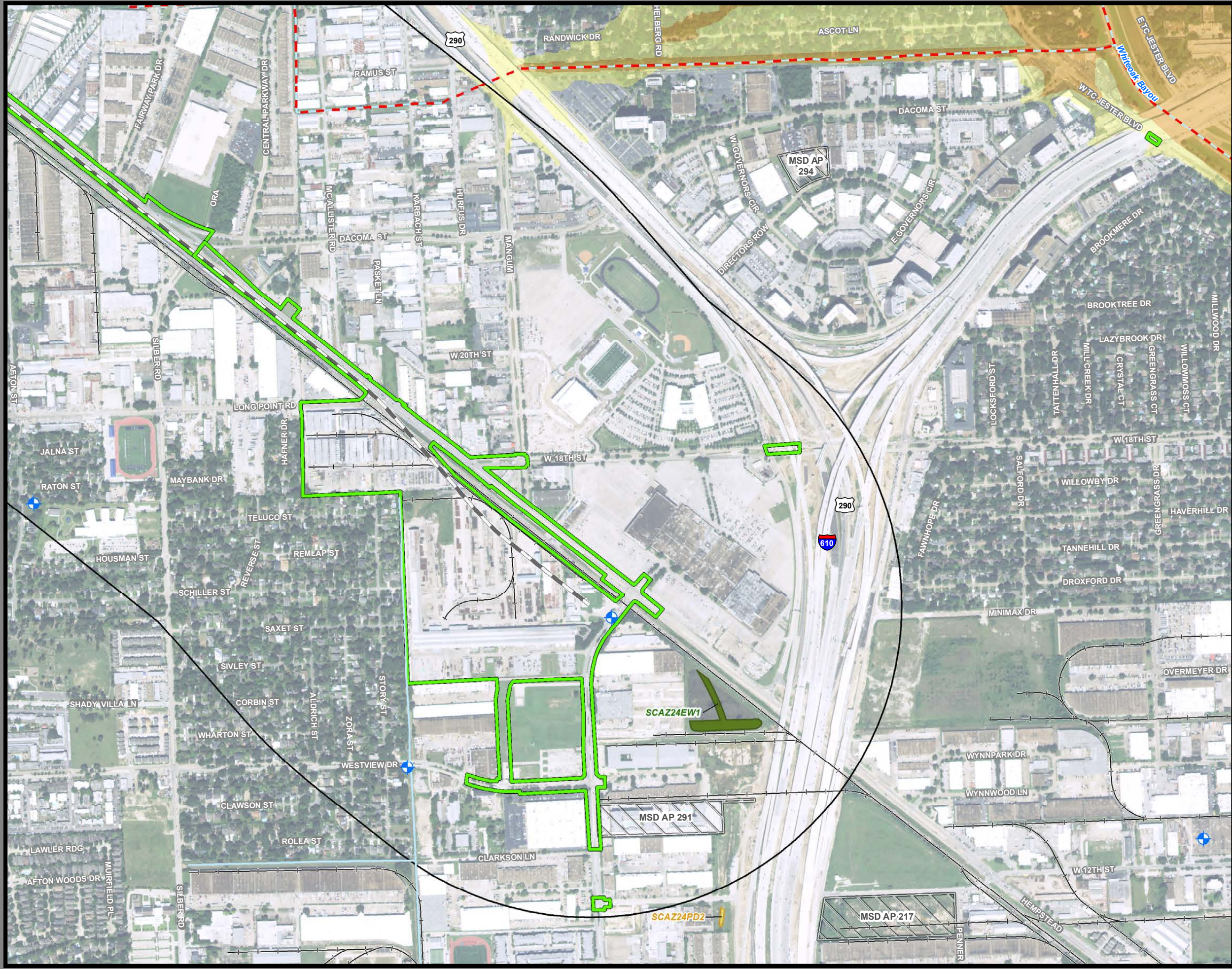
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016







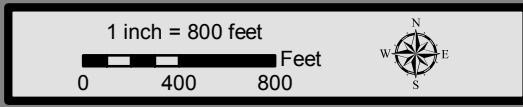
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources  
Segment 5, Industrial Site Terminal Option  
Sheet 253 of 257**

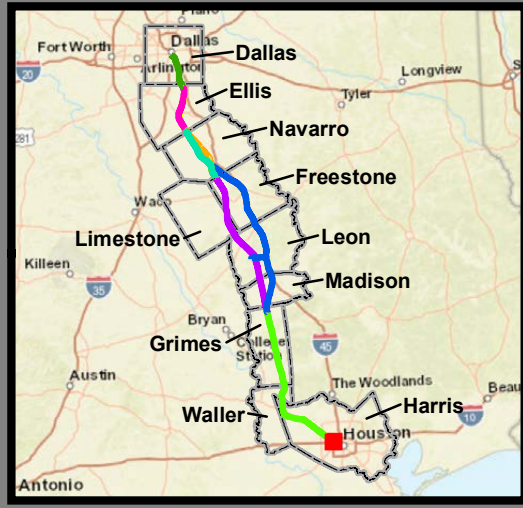
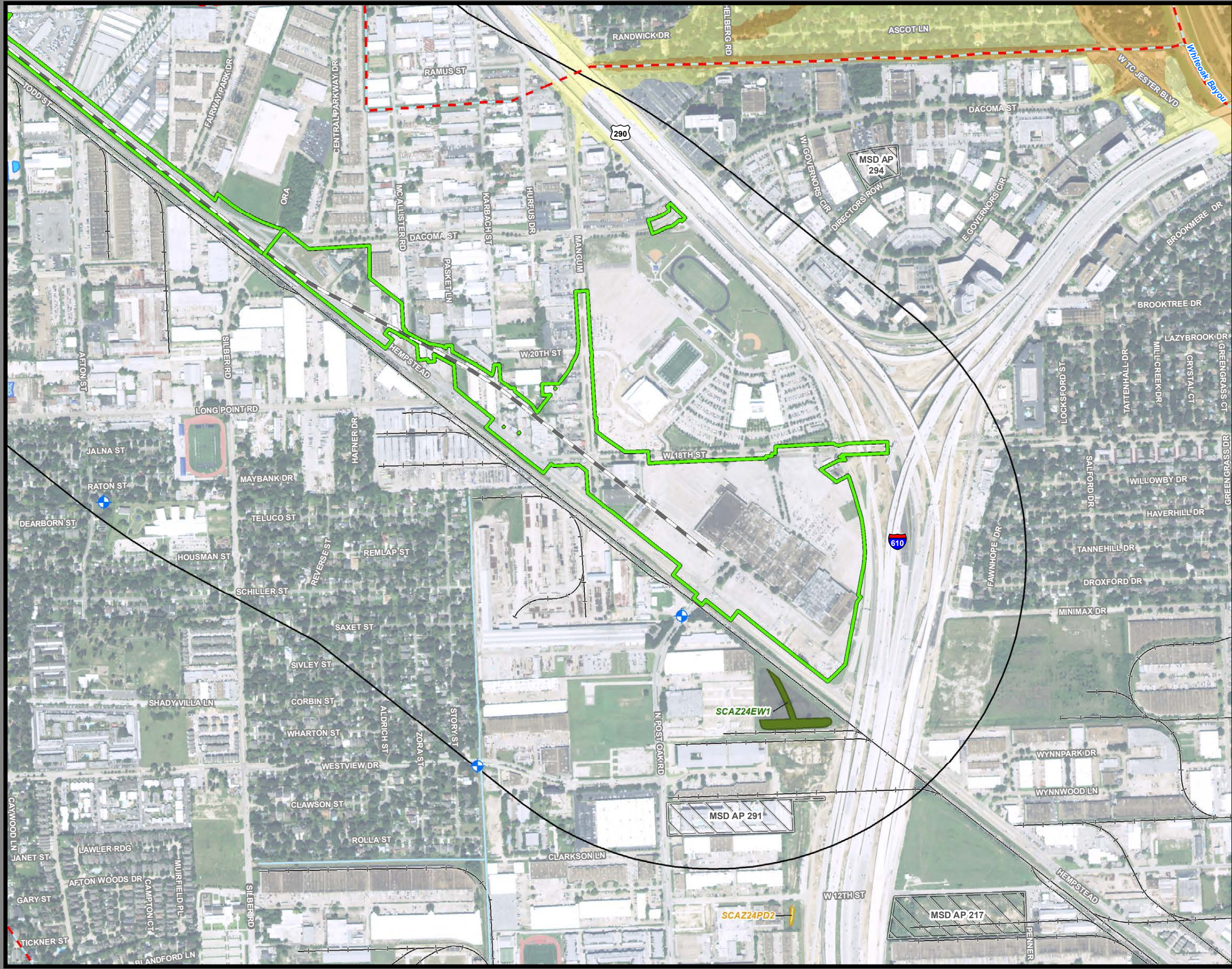
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> </ul> <p><b>Element of Occurrence</b></p> <ul style="list-style-type: none"> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Aerial Imagery:** USDA NAIP 2016





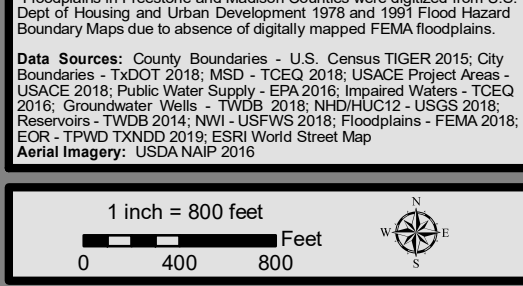
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources**  
Segment 5, Northwest Mall Terminal Option  
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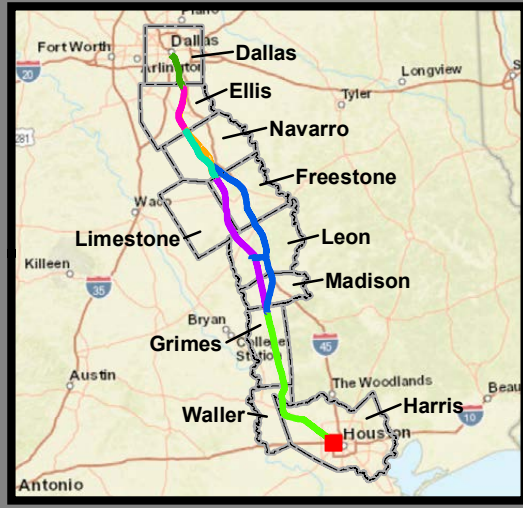
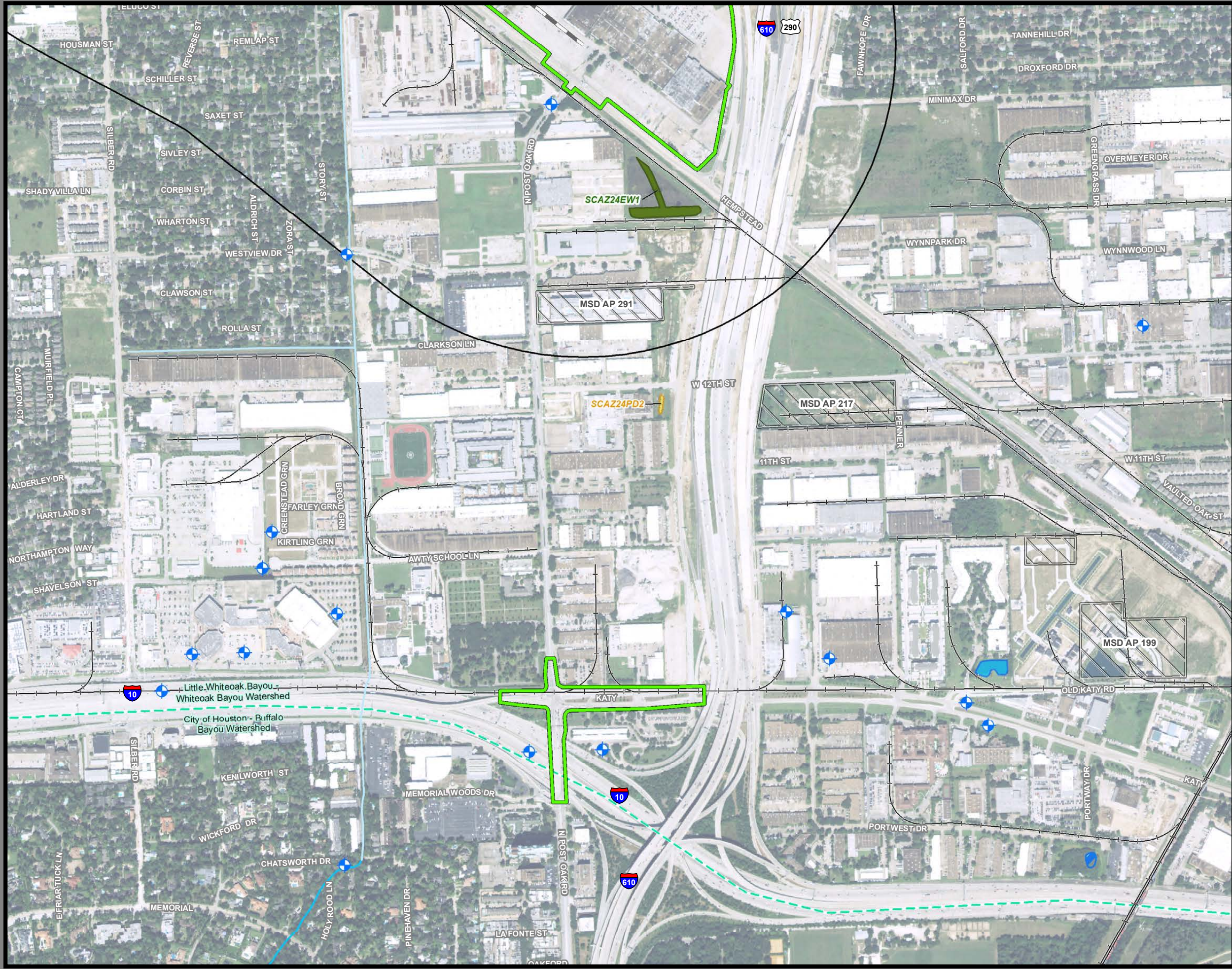
**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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**Dallas to Houston  
High-Speed Rail Project  
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Segment 5, Northwest Mall Terminal Option  
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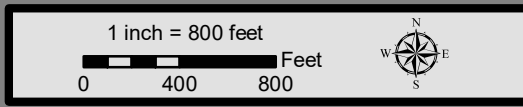
**Legend**

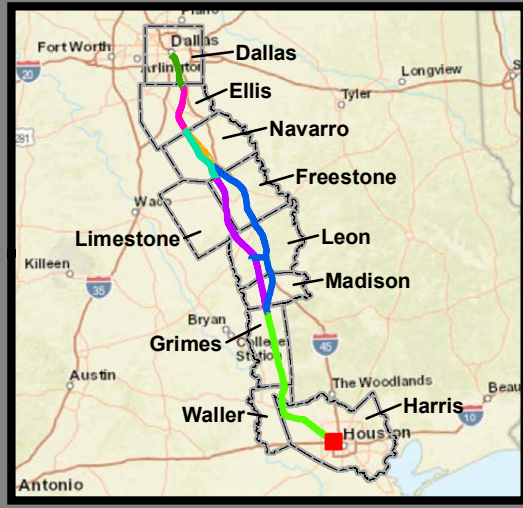
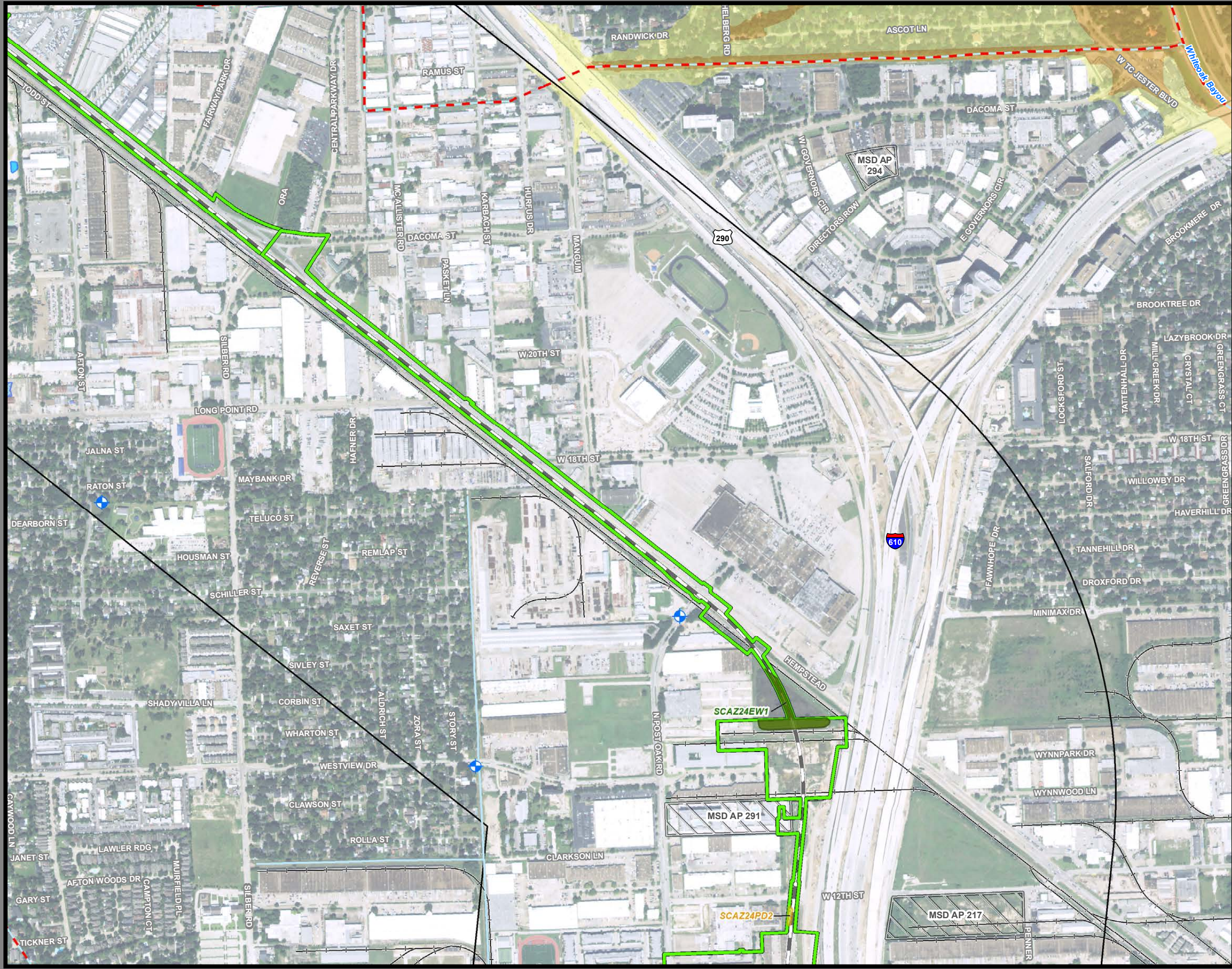
<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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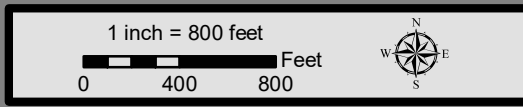


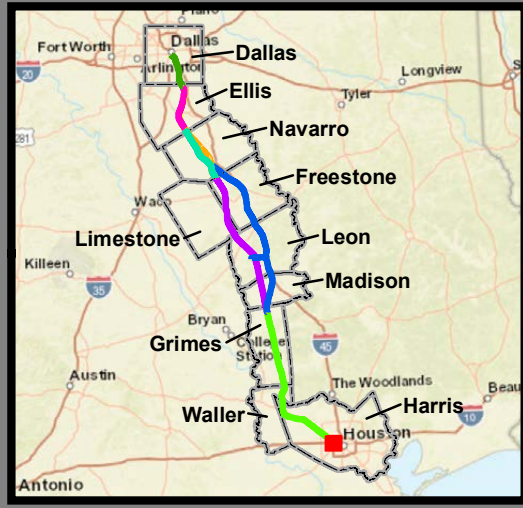
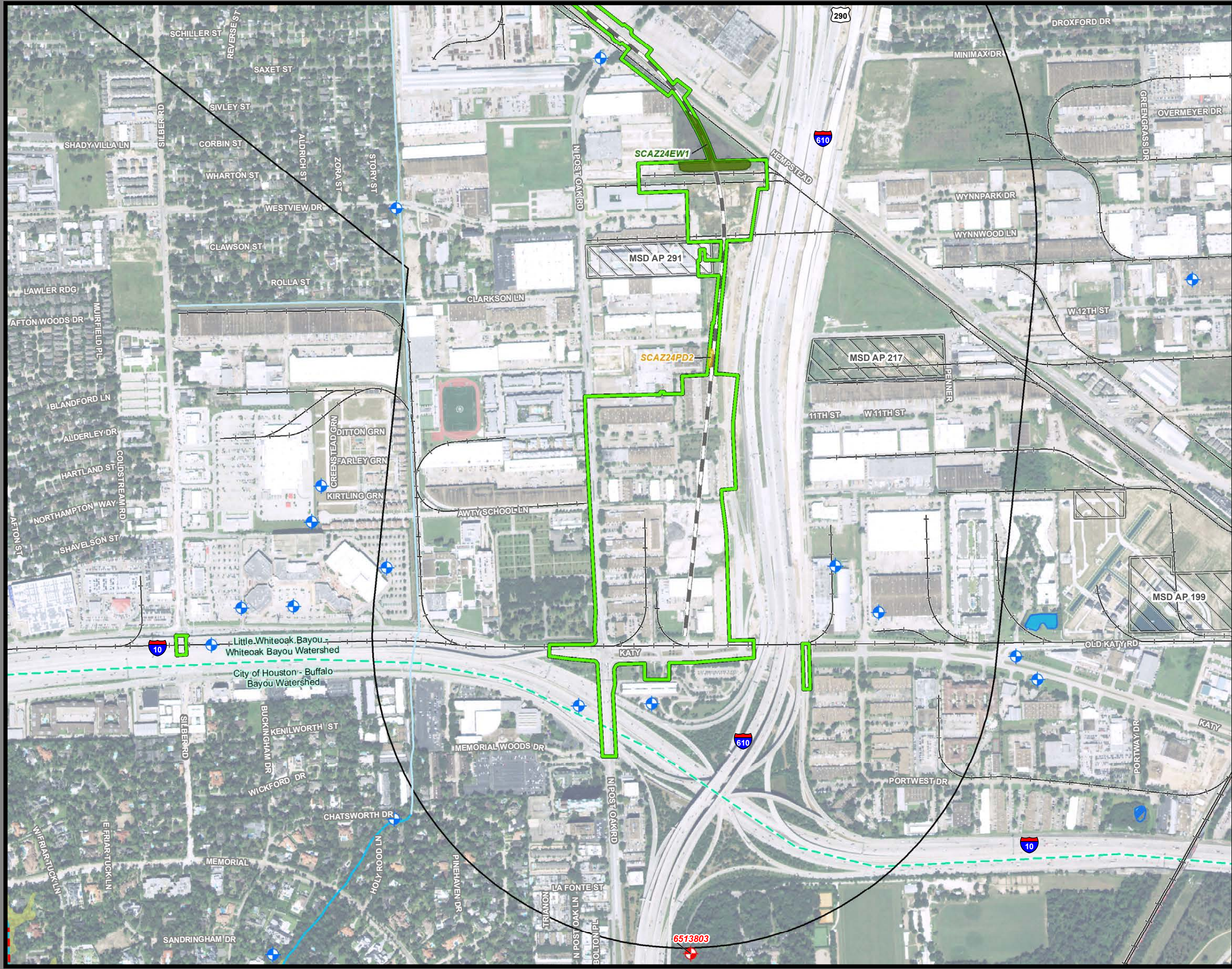
**Dallas to Houston  
High-Speed Rail Project  
Natural Resources**  
Segment 5, Northwest Transit Center Terminal Option  
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Legend	
<b>Limits of Disturbance</b>	Impaired Waters with Total Maximum Daily Load (TMDL)
Segment 1	Impaired Waters
Segment 2A	<b>Federal Emergency Management Agency (FEMA) Flood Zone</b>
Segment 2B	A - 1%
Segment 3A	AE - 1%
Segment 3B	AO - 1%
Segment 3C	X - 0.2%
Segment 4	<b>Field-Collected Data</b>
Segment 5	Perennial Stream/River
<b>Track Configuration</b>	Intermittent Stream/River
Viaduct	Ephemeral Stream/River
Embankment	Other Stream/River
Cut	Lake/Pond
Half Mile Centerline Buffer	Emergent Wetland
City Boundary	Forested Wetland
County Boundary	Scrub/Shrub Wetland
Railroad	<b>National Hydrography Dataset (NHD)</b>
Municipal Setting Designation (MSD)	Perennial Stream/River
<b>Potential Habitat</b>	Intermittent Stream/River
Houston Toad	Artificial Stream/Canal
Large-fruited Sand Verbena	Lake/Pond
Navasota Ladies'-tresses	Reservoir
Record of Occurrence	Swamp/Marsh
Record for Federally Protected Species	<b>National Wetlands Inventory (NWI)</b>
U.S. Army Corps of Engineers (USACE) Project Area	Freshwater Emergent Wetland
Watershed (HUC 12) Boundary	Freshwater Forested/Shrub Wetland
Public Water Supply	Other
Groundwater Wells	

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**Dallas to Houston  
High-Speed Rail Project  
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Segment 5, Northwest Transit Center Terminal Option  
Sheet 257 of 257

**Legend**

<p><b>Limits of Disturbance</b></p> <ul style="list-style-type: none"> <li>Segment 1</li> <li>Segment 2A</li> <li>Segment 2B</li> <li>Segment 3A</li> <li>Segment 3B</li> <li>Segment 3C</li> <li>Segment 4</li> <li>Segment 5</li> </ul> <p><b>Track Configuration</b></p> <ul style="list-style-type: none"> <li>Viaduct</li> <li>Embankment</li> <li>Cut</li> <li>Half Mile Centerline Buffer</li> <li>City Boundary</li> <li>County Boundary</li> <li>Railroad</li> <li>Municipal Setting Designation (MSD)</li> </ul> <p><b>Potential Habitat</b></p> <ul style="list-style-type: none"> <li>Houston Toad</li> <li>Large-fruited Sand Verbena</li> <li>Navasota Ladies'-tresses</li> <li>Element of Occurrence</li> <li>Record for Federally Protected Species</li> <li>U.S. Army Corps of Engineers (USACE) Project Area</li> <li>Watershed (HUC 12) Boundary</li> <li>Public Water Supply</li> <li>Groundwater Wells</li> </ul>	<ul style="list-style-type: none"> <li>Impaired Waters with Total Maximum Daily Load (TMDL)</li> <li>Impaired Waters</li> </ul> <p><b>Federal Emergency Management Agency (FEMA) Flood Zone</b></p> <ul style="list-style-type: none"> <li>A - 1%</li> <li>AE - 1%</li> <li>AO - 1%</li> <li>X - 0.2%</li> </ul> <p><b>Field-Collected Data</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Ephemeral Stream/River</li> <li>Other Stream/River</li> <li>Lake/Pond</li> <li>Emergent Wetland</li> <li>Forested Wetland</li> <li>Scrub/Shrub Wetland</li> </ul> <p><b>National Hydrography Dataset (NHD)</b></p> <ul style="list-style-type: none"> <li>Perennial Stream/River</li> <li>Intermittent Stream/River</li> <li>Artificial Stream/Canal</li> <li>Lake/Pond</li> <li>Reservoir</li> <li>Swamp/Marsh</li> </ul> <p><b>National Wetlands Inventory (NWI)</b></p> <ul style="list-style-type: none"> <li>Freshwater Emergent Wetland</li> <li>Freshwater Forested/Shrub Wetland</li> <li>Other</li> </ul>
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