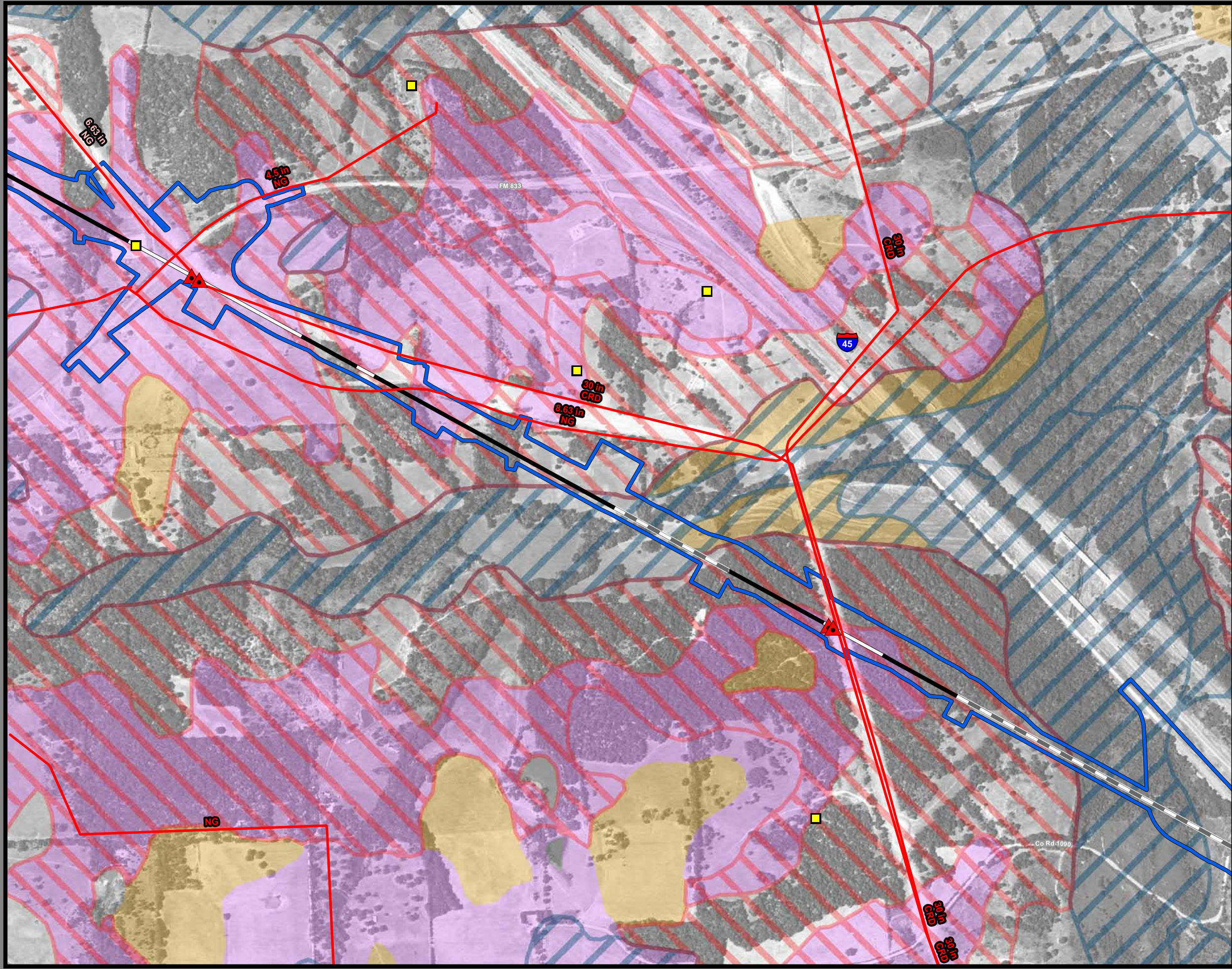


**Dallas to Houston High-Speed Rail
Draft Environmental Impact Statement**

**Appendix D:
Mineral and Utility Resources
Mapbook Set 2 of 3**



**Federal Railroad
Administration**



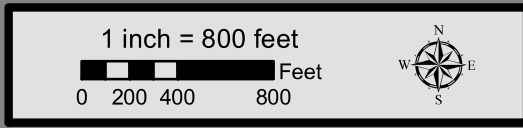
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 101 of 257**

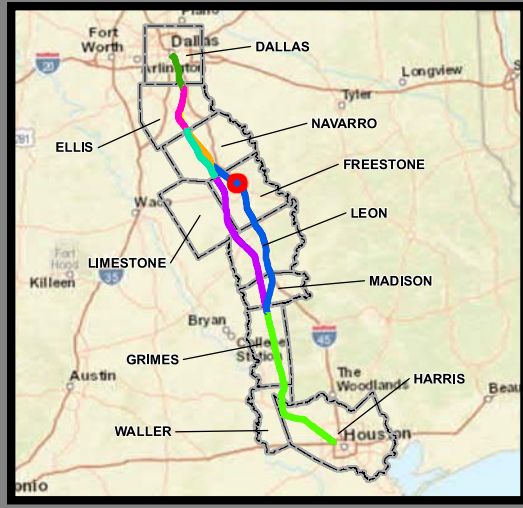
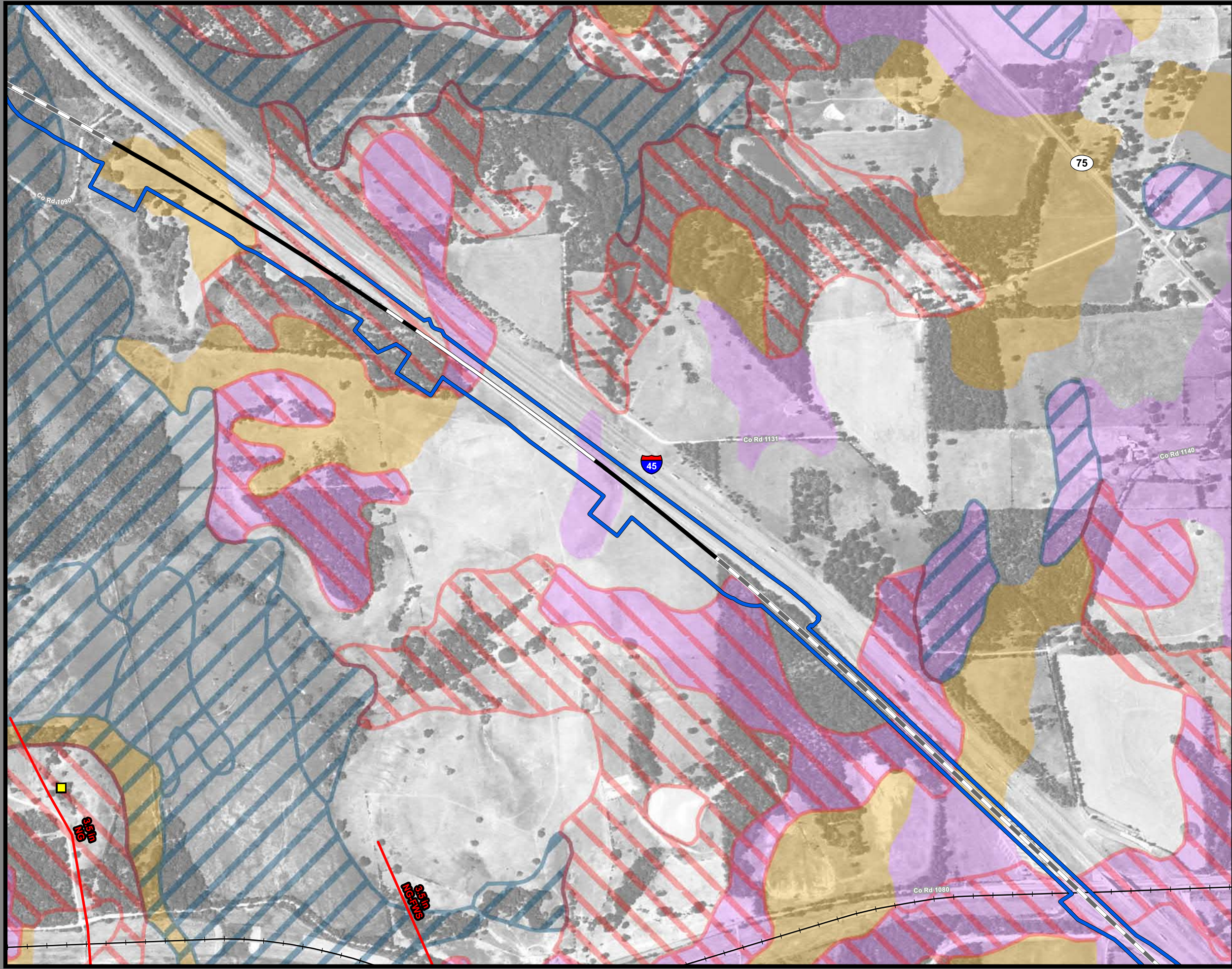
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





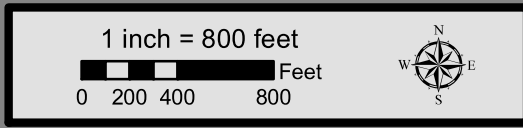
**Dallas to Houston
High-Speed Rail Project
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Segment 3C
Sheet 102 of 257**

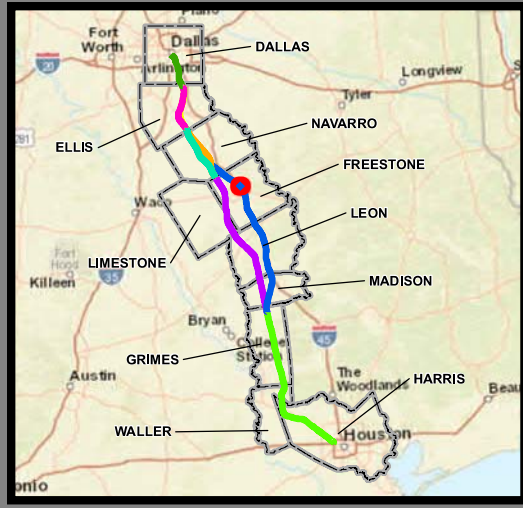
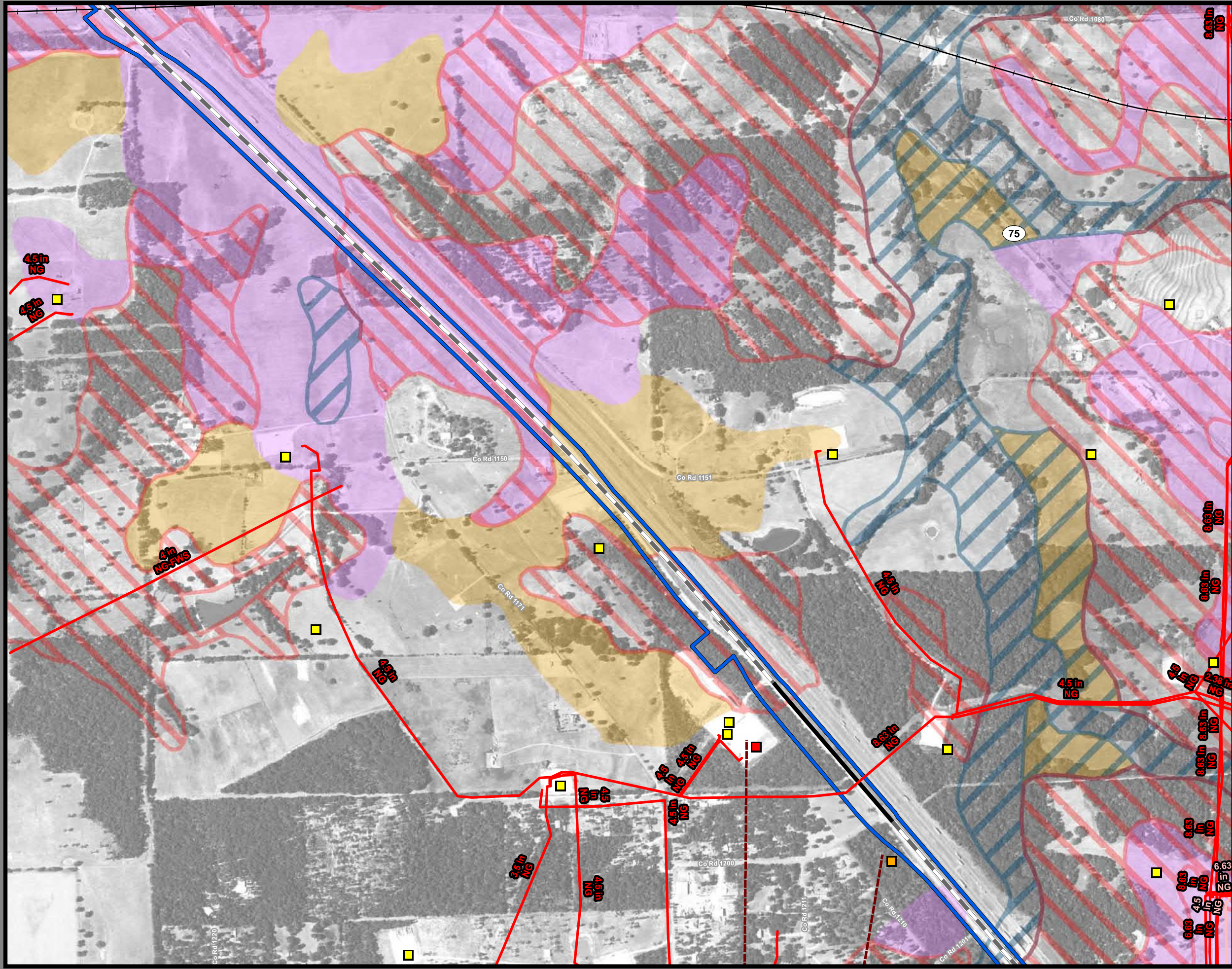
Legend

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Cut	
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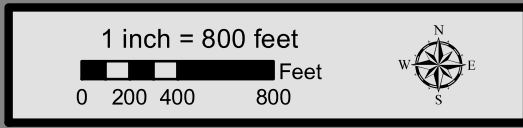
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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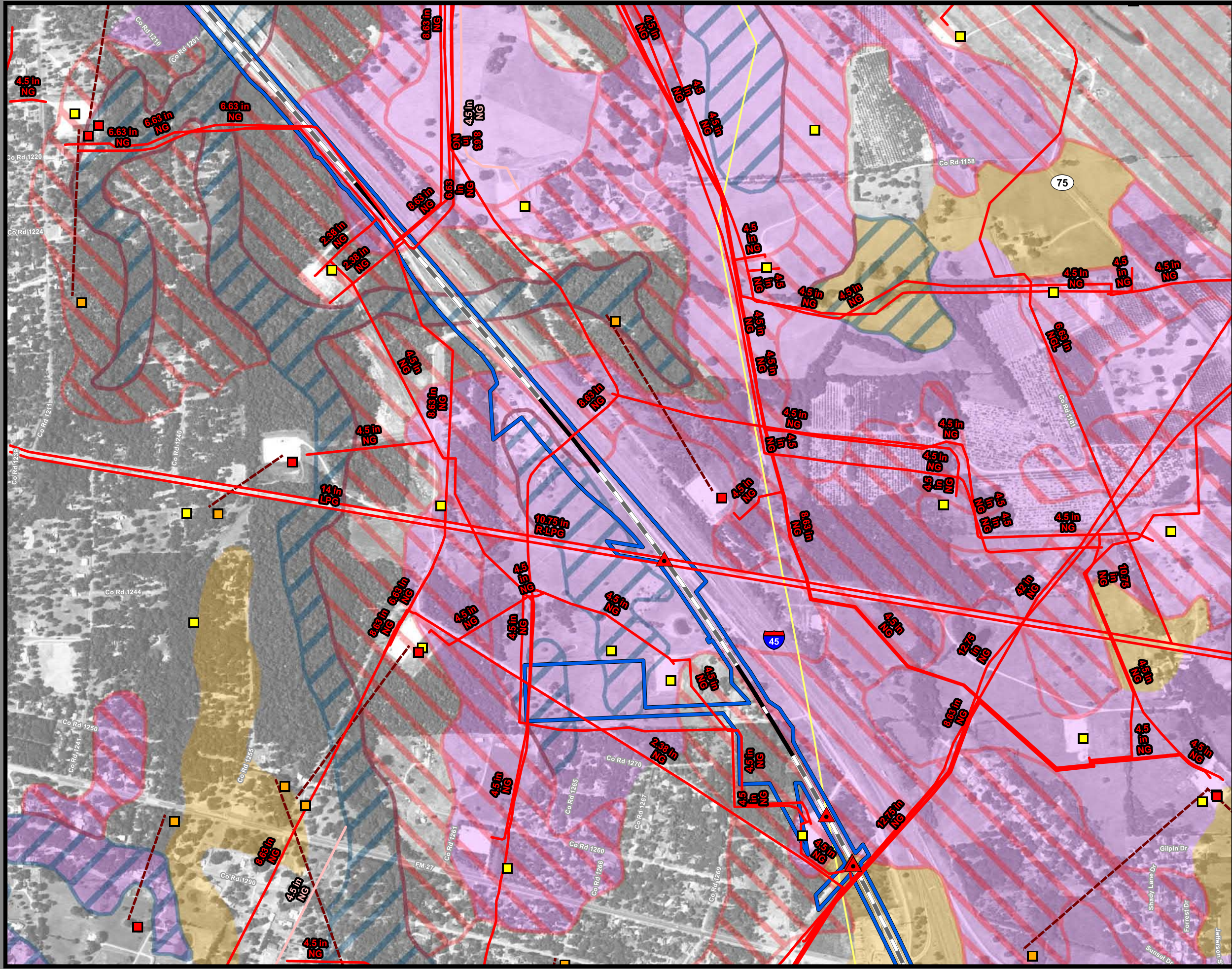
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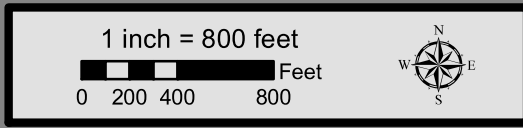
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High-Speed Rail Project
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Segment 3C
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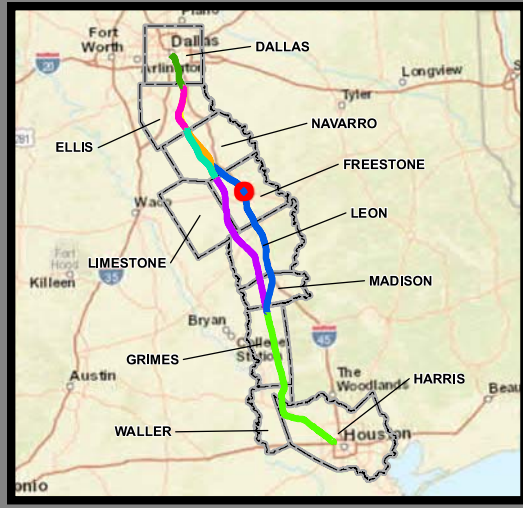
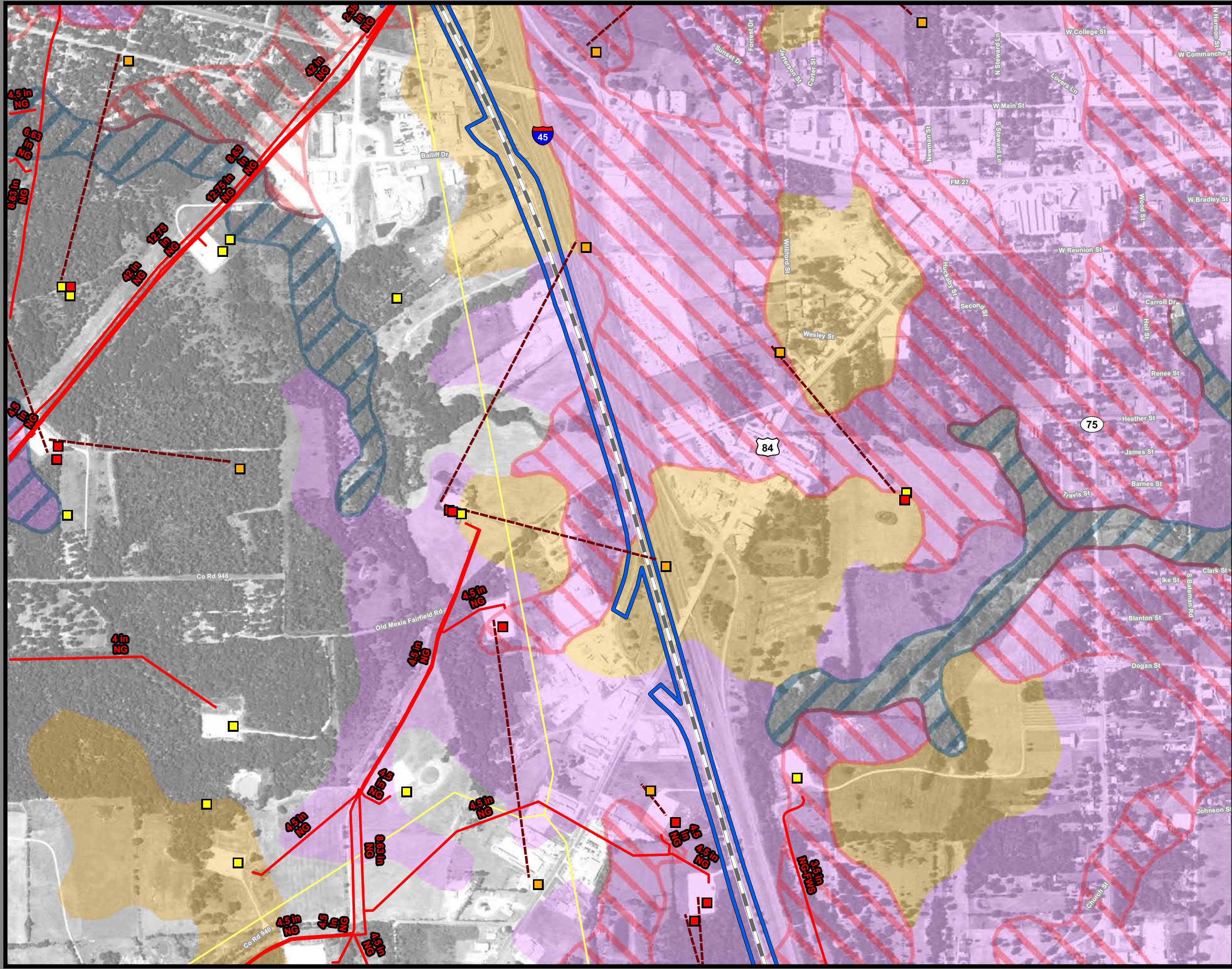
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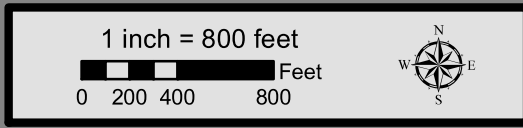
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 105 of 257**

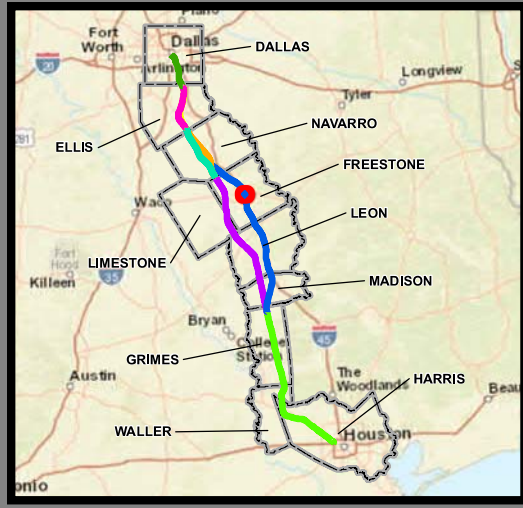
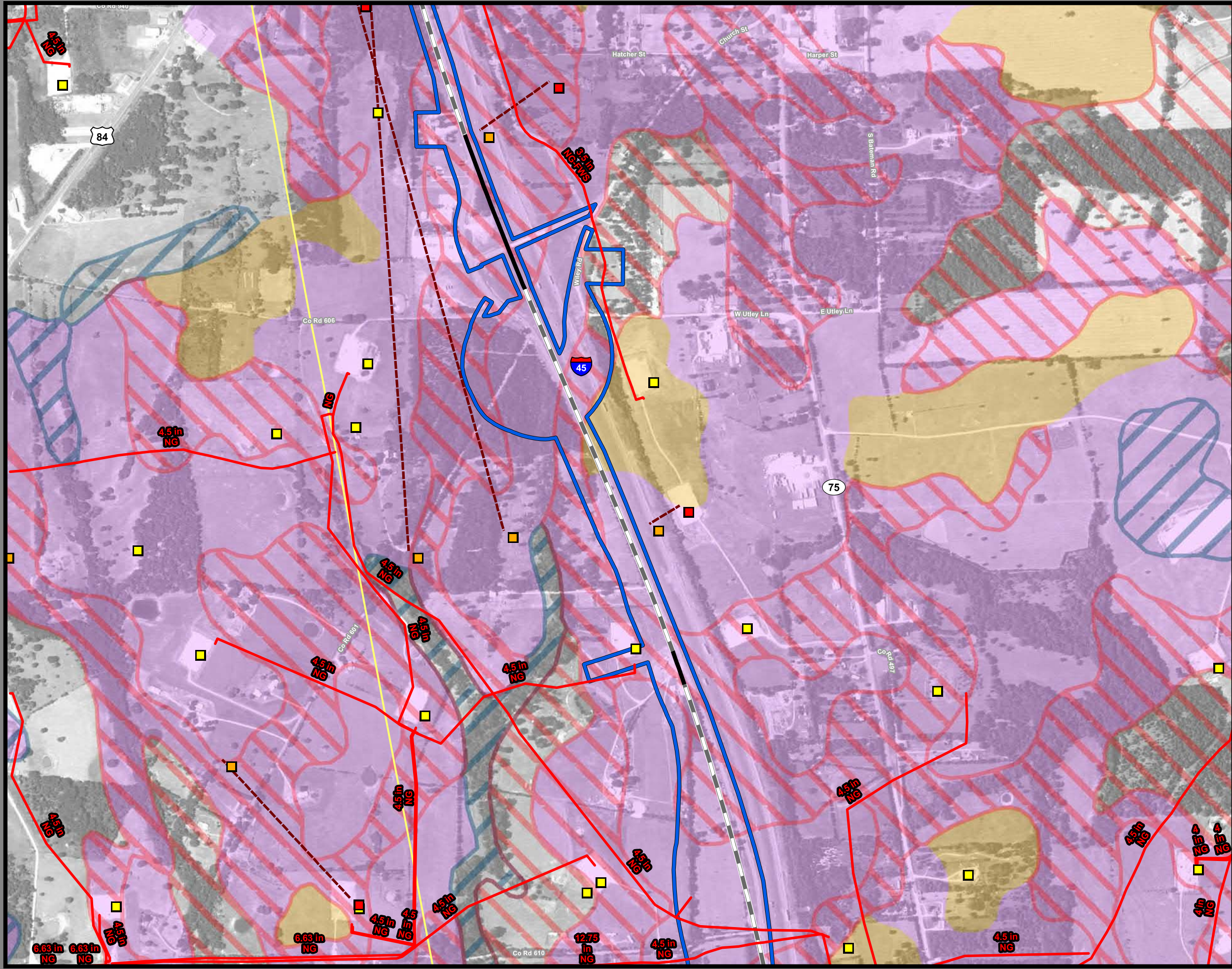
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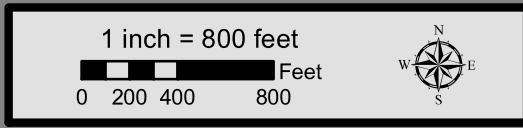
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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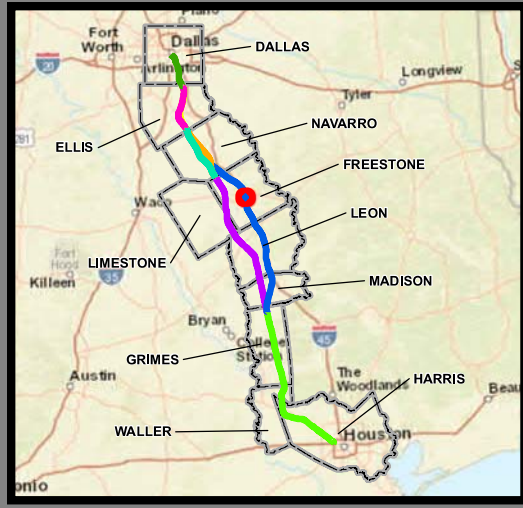
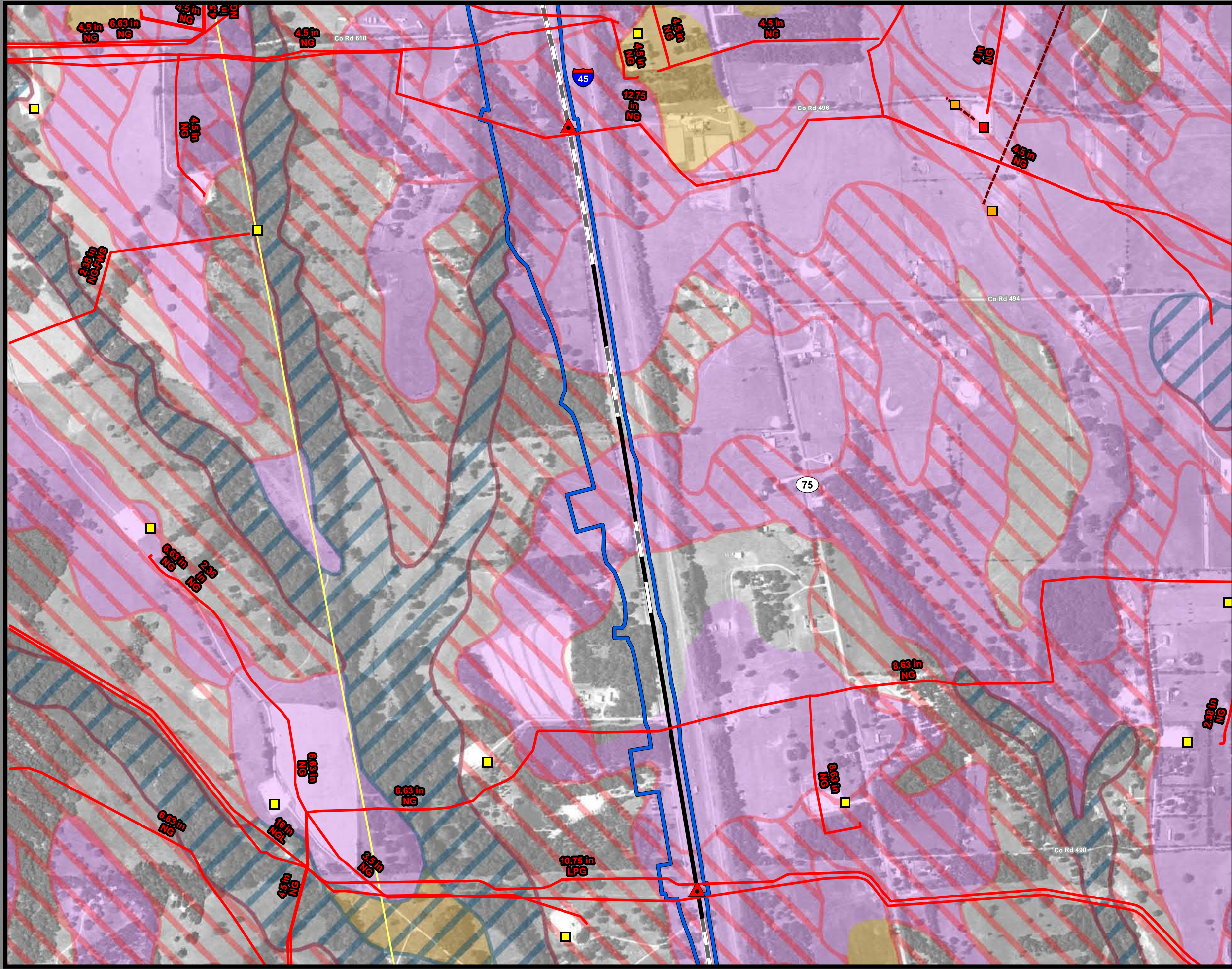
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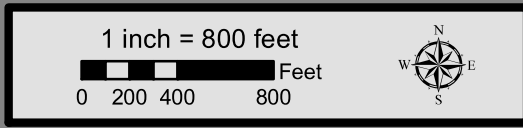
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 107 of 257**

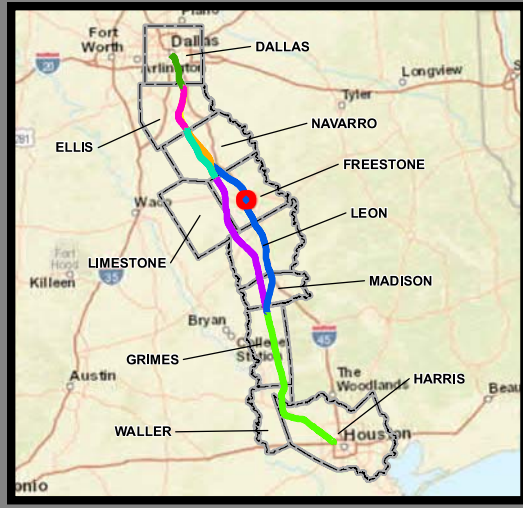
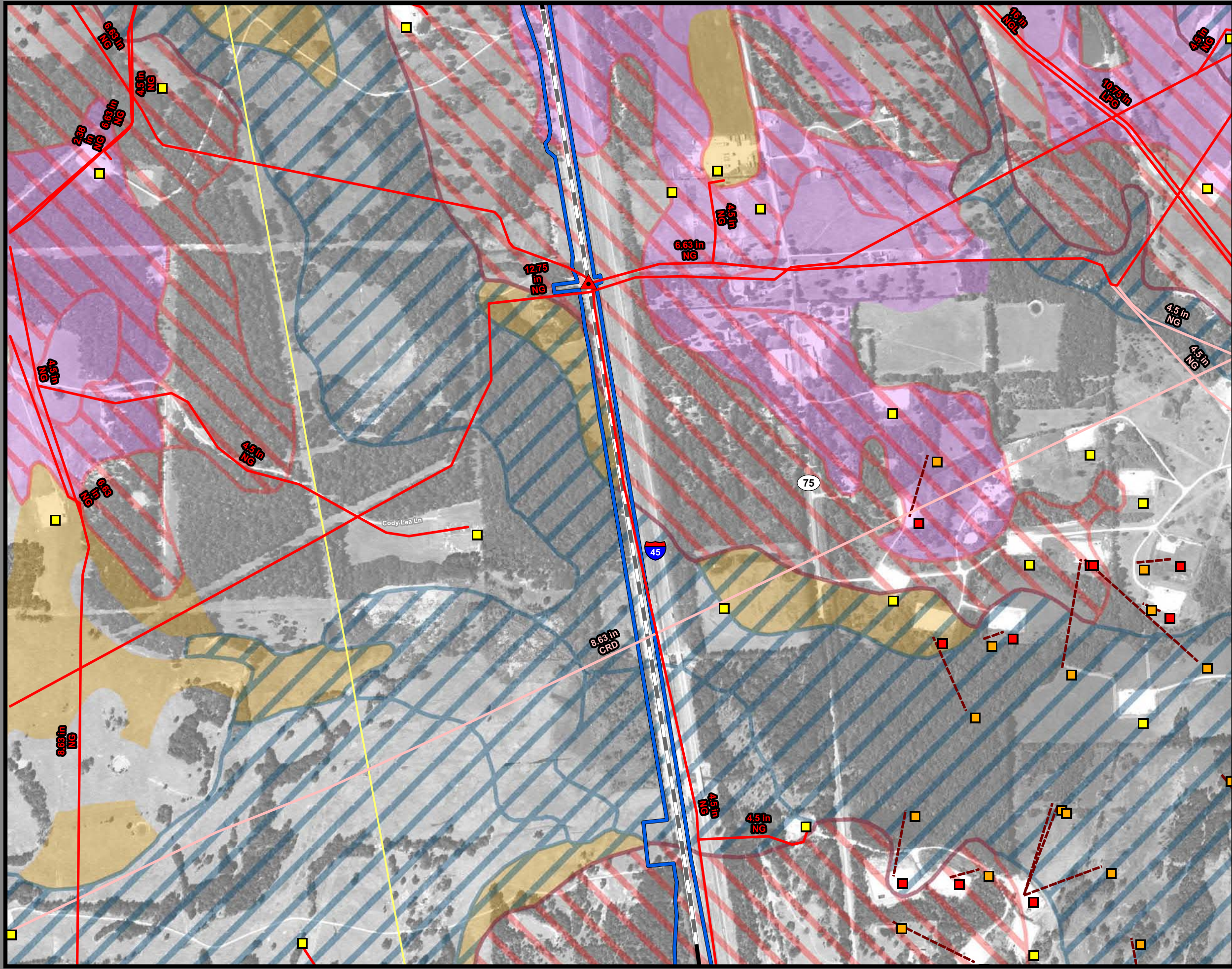
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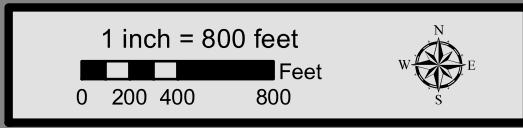
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 108 of 257**

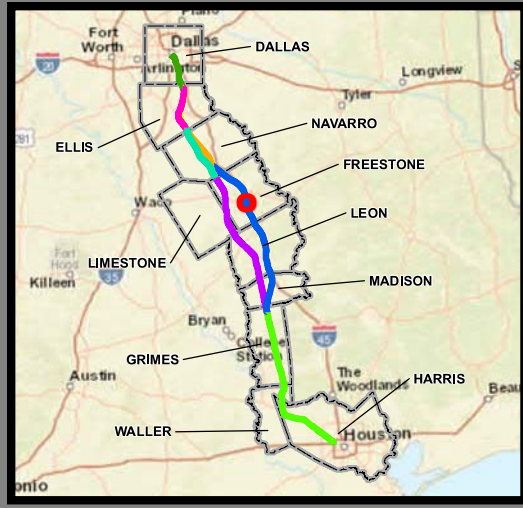
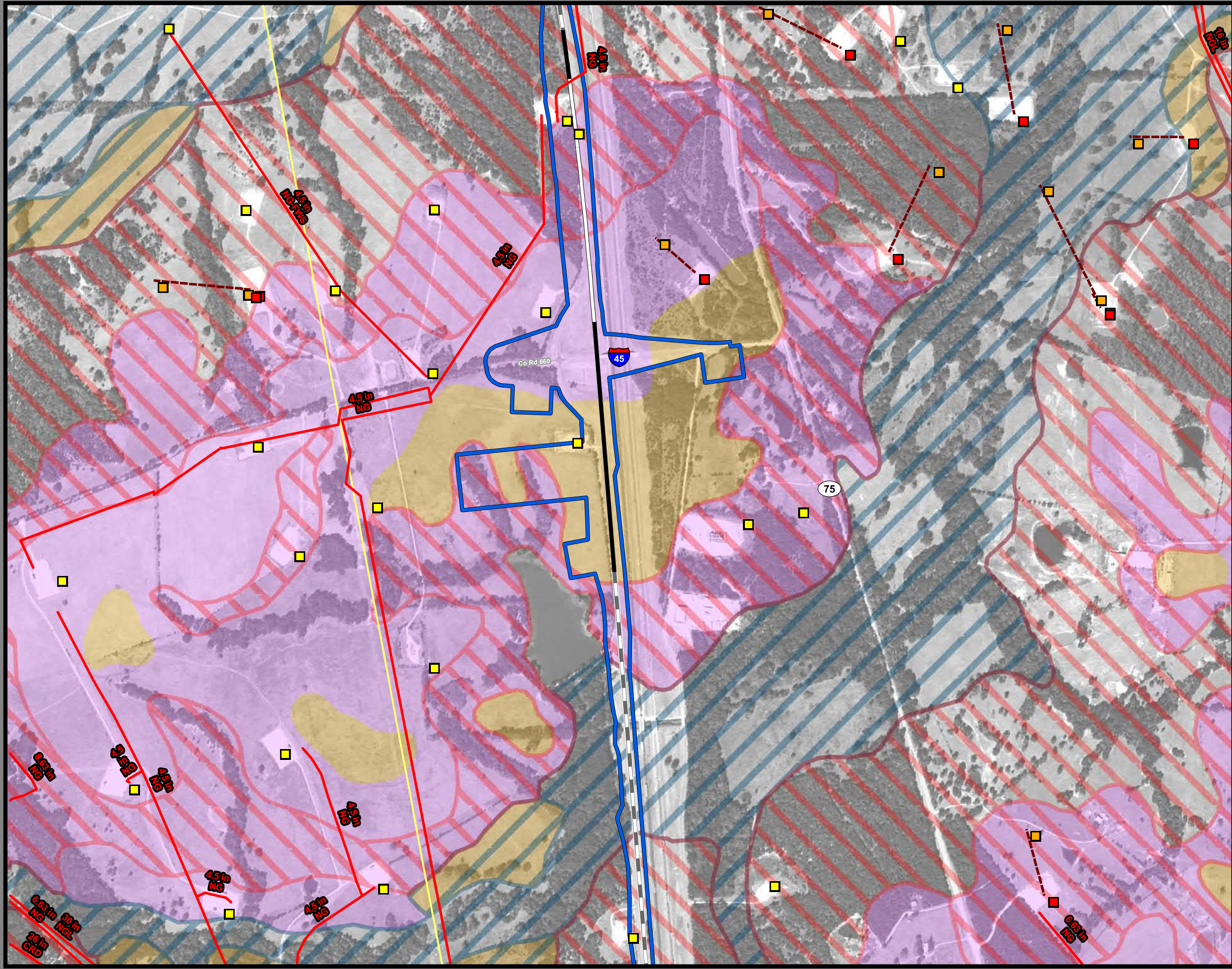
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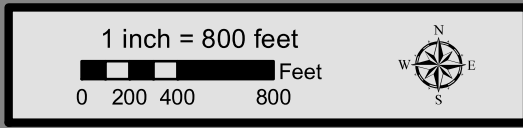
**Dallas to Houston
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Sheet 109 of 257**

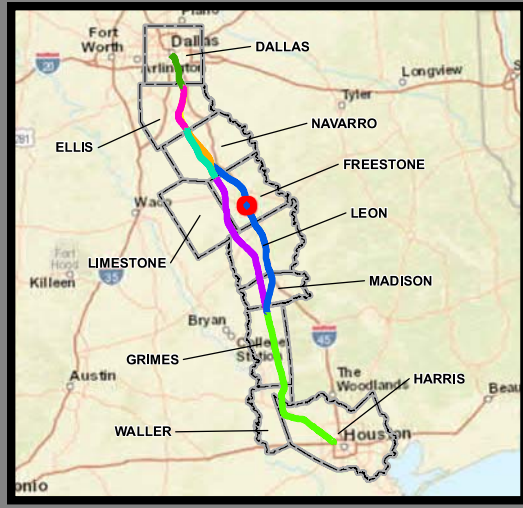
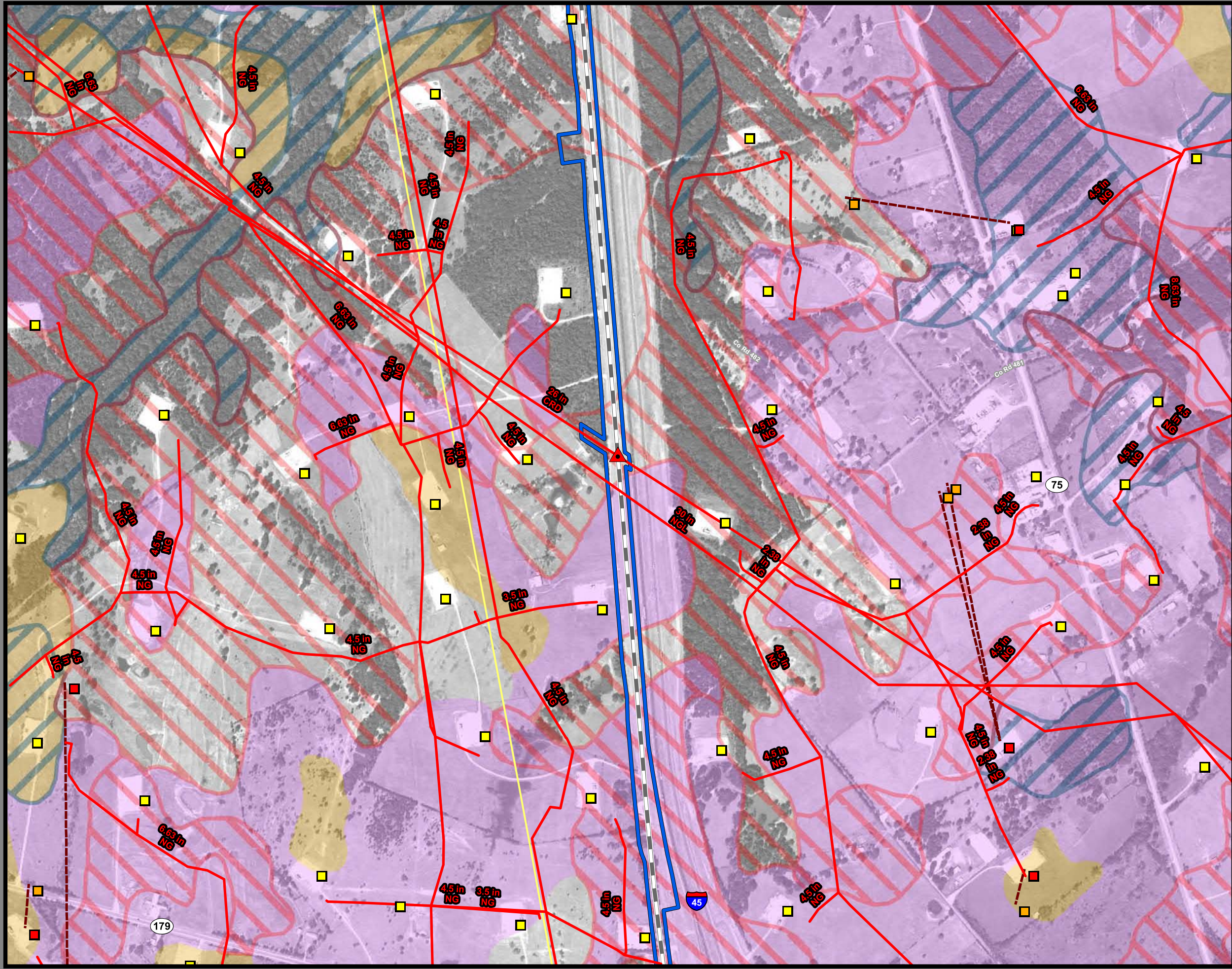
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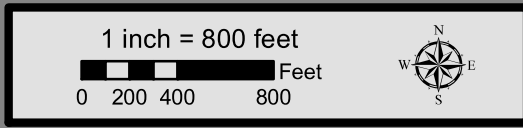
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High-Speed Rail Project
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Sheet 110 of 257**

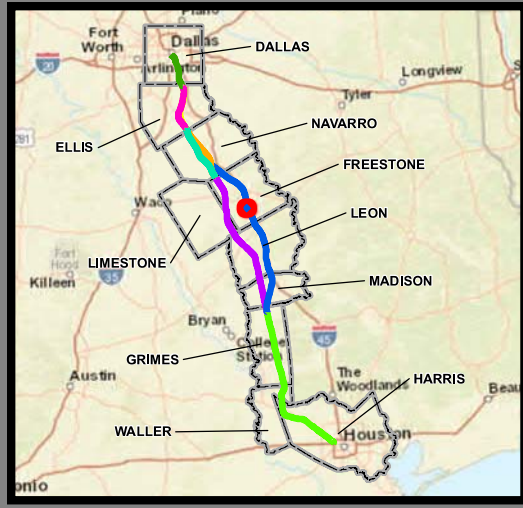
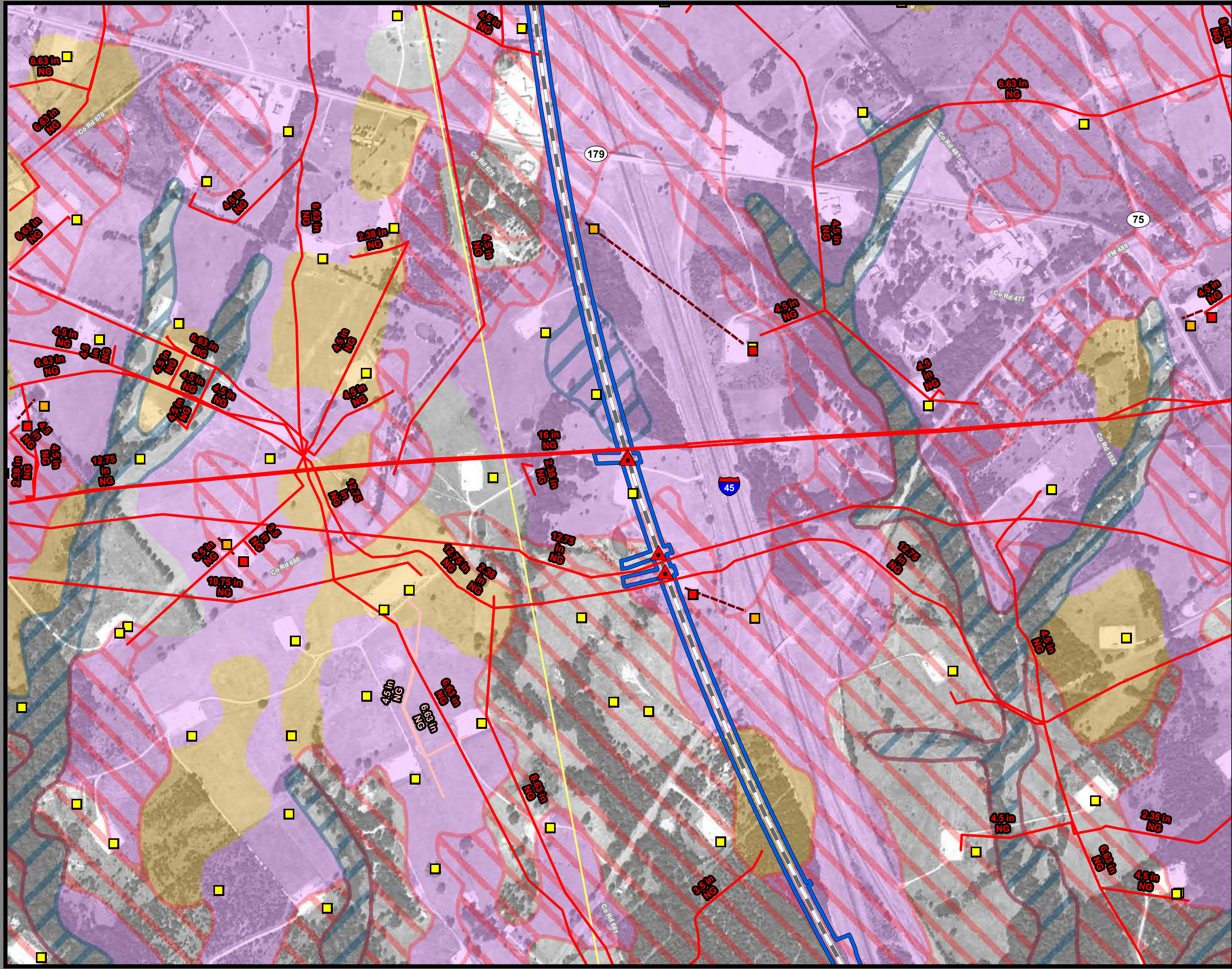
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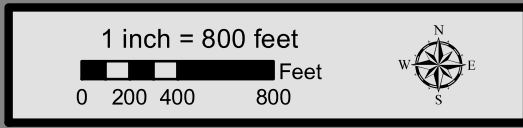
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
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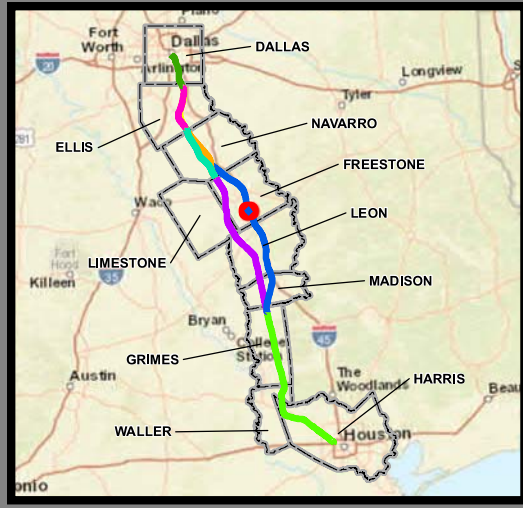
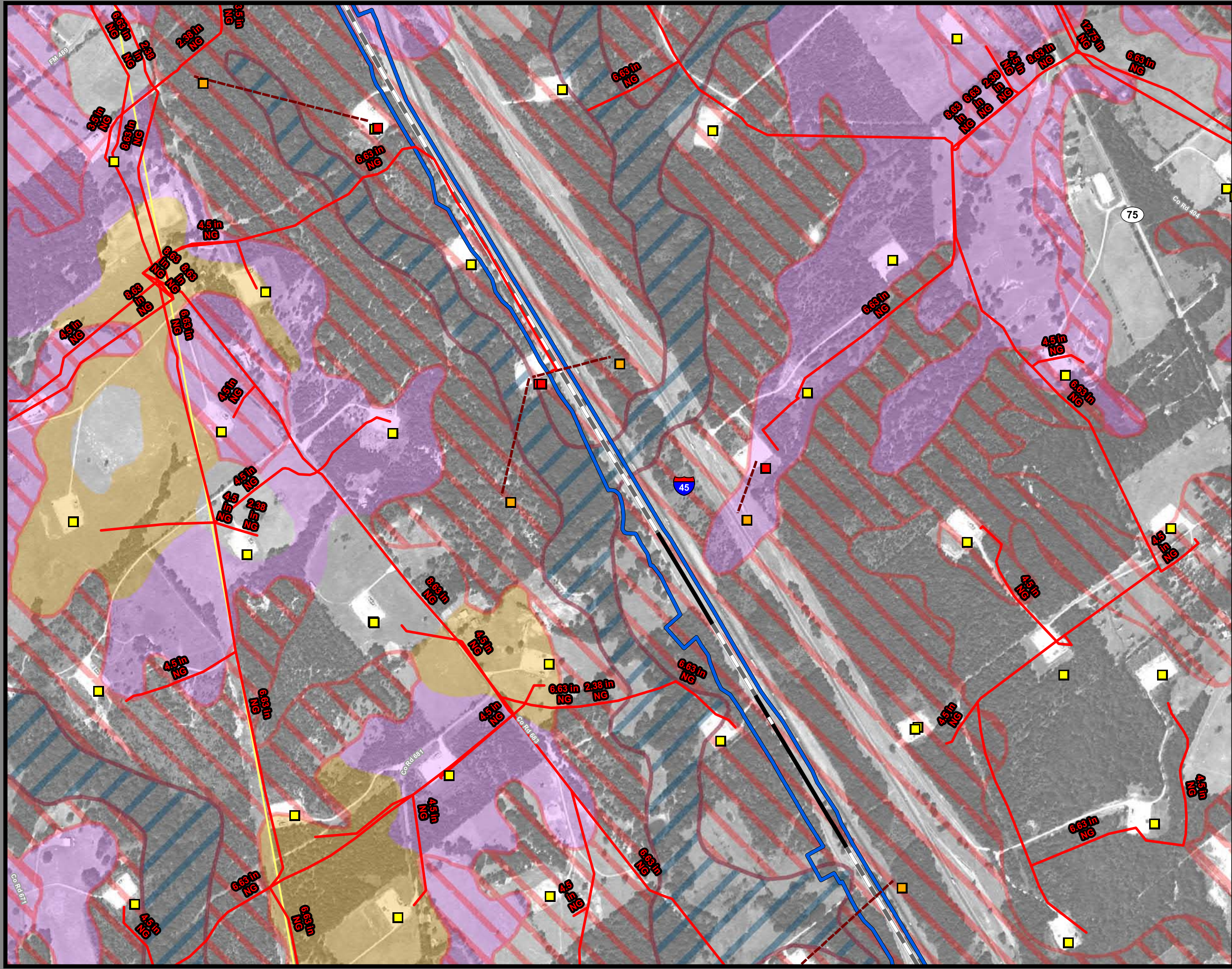
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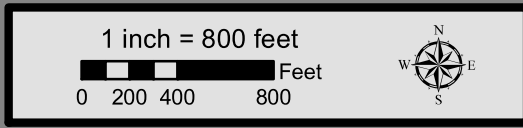
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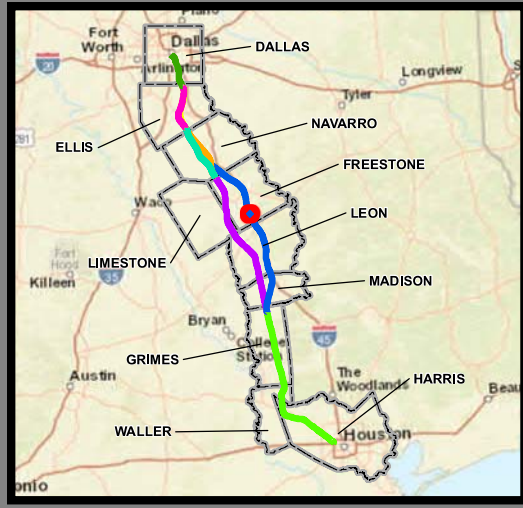
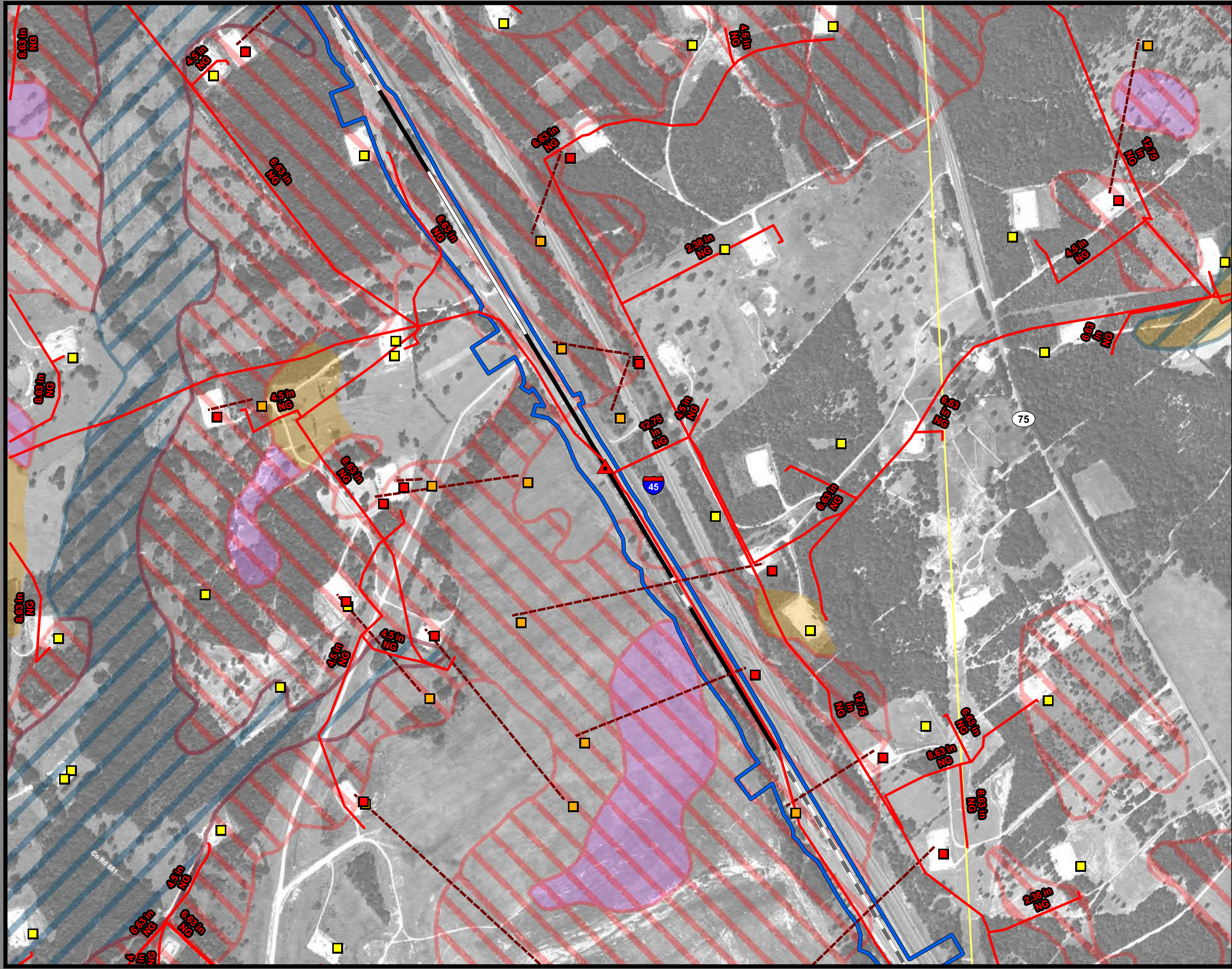
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 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





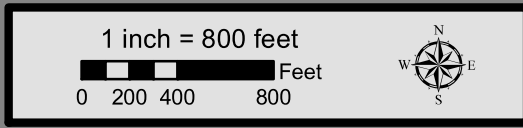
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Mineral and Utility Resources
Segment 3C
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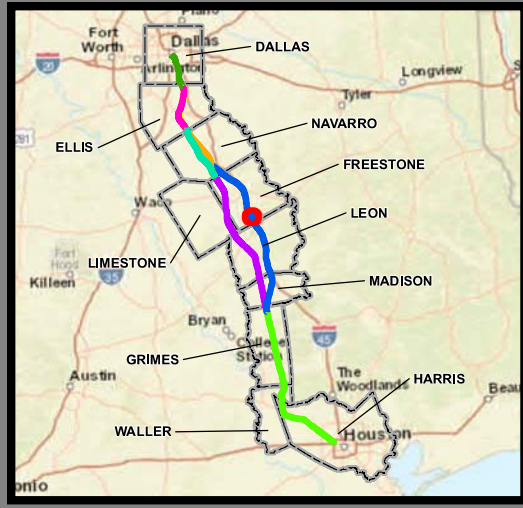
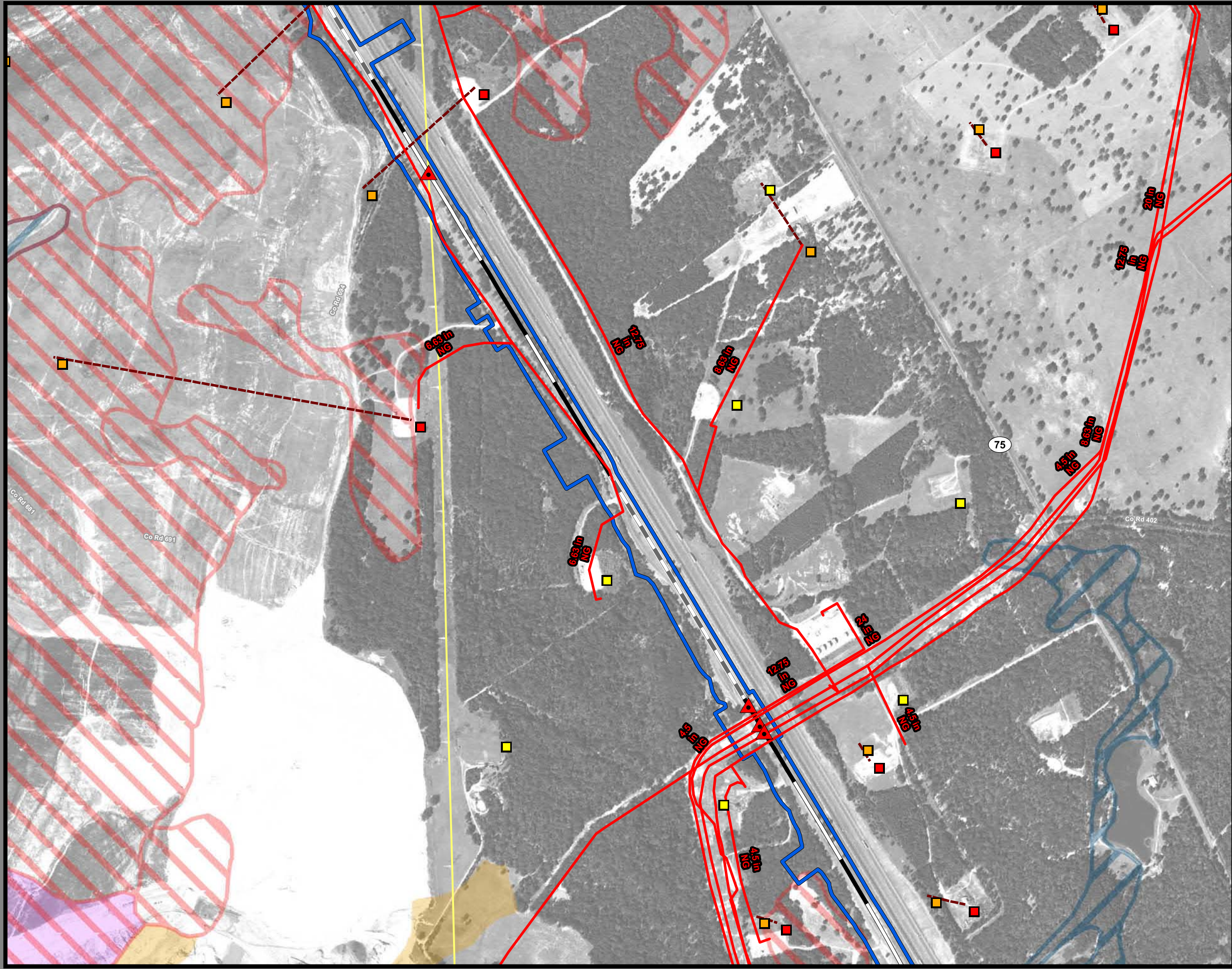
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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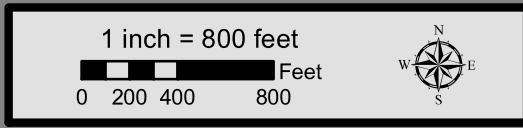
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Mineral and Utility Resources
Segment 3C
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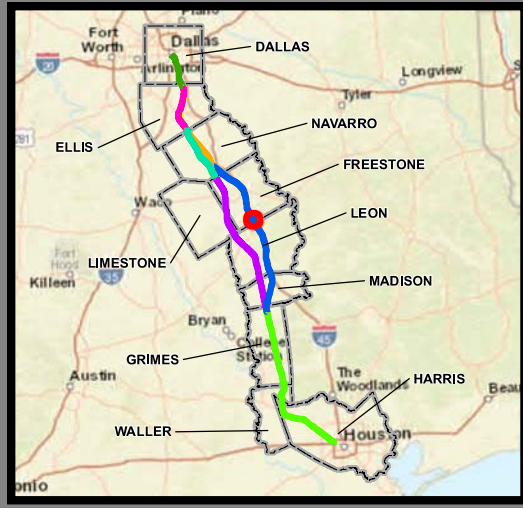
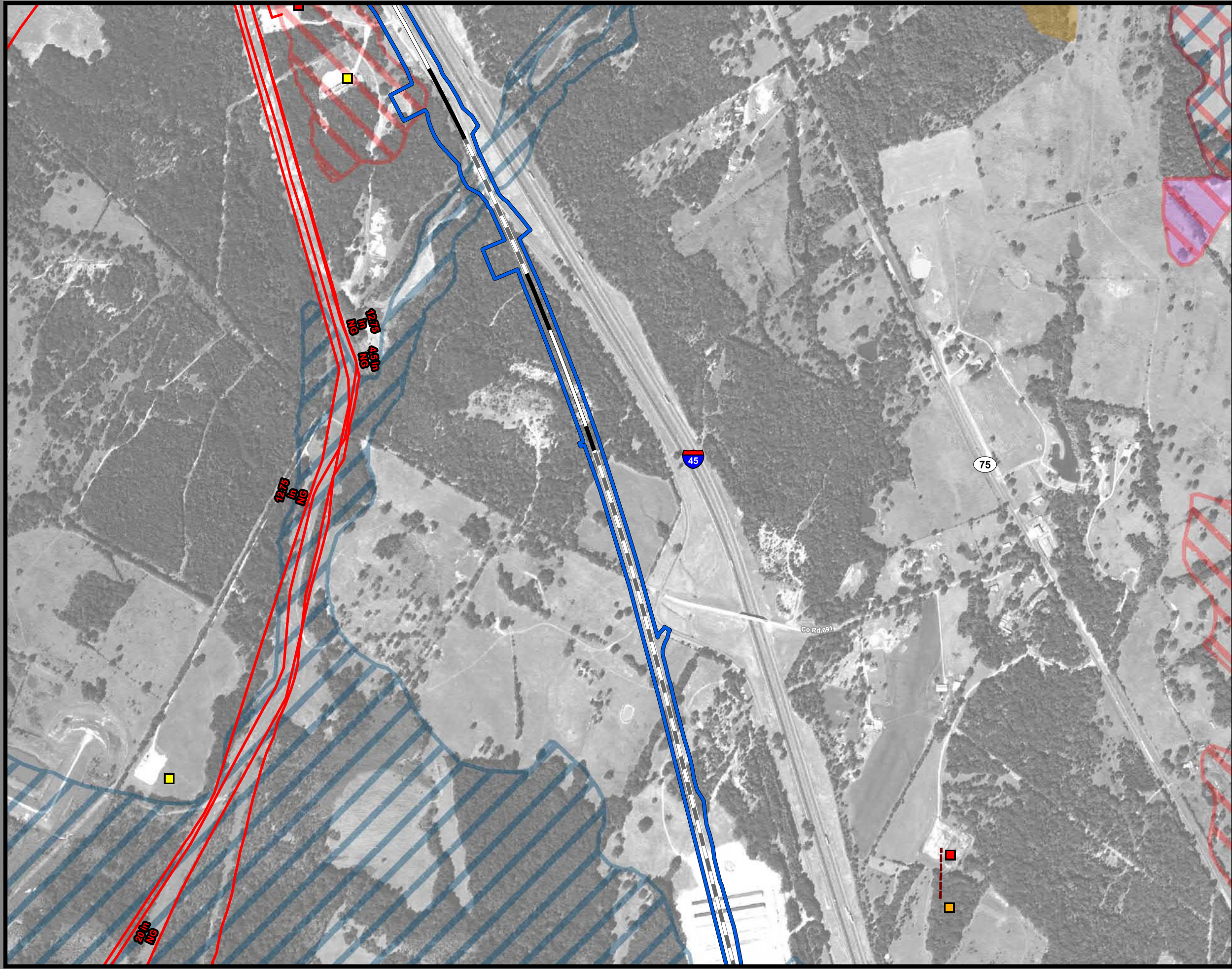
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County Boundary	Soils
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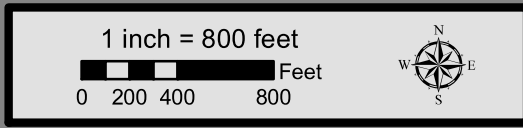
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Segment 3C
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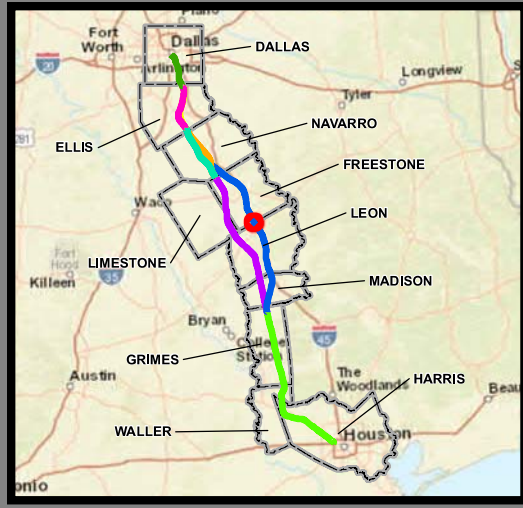
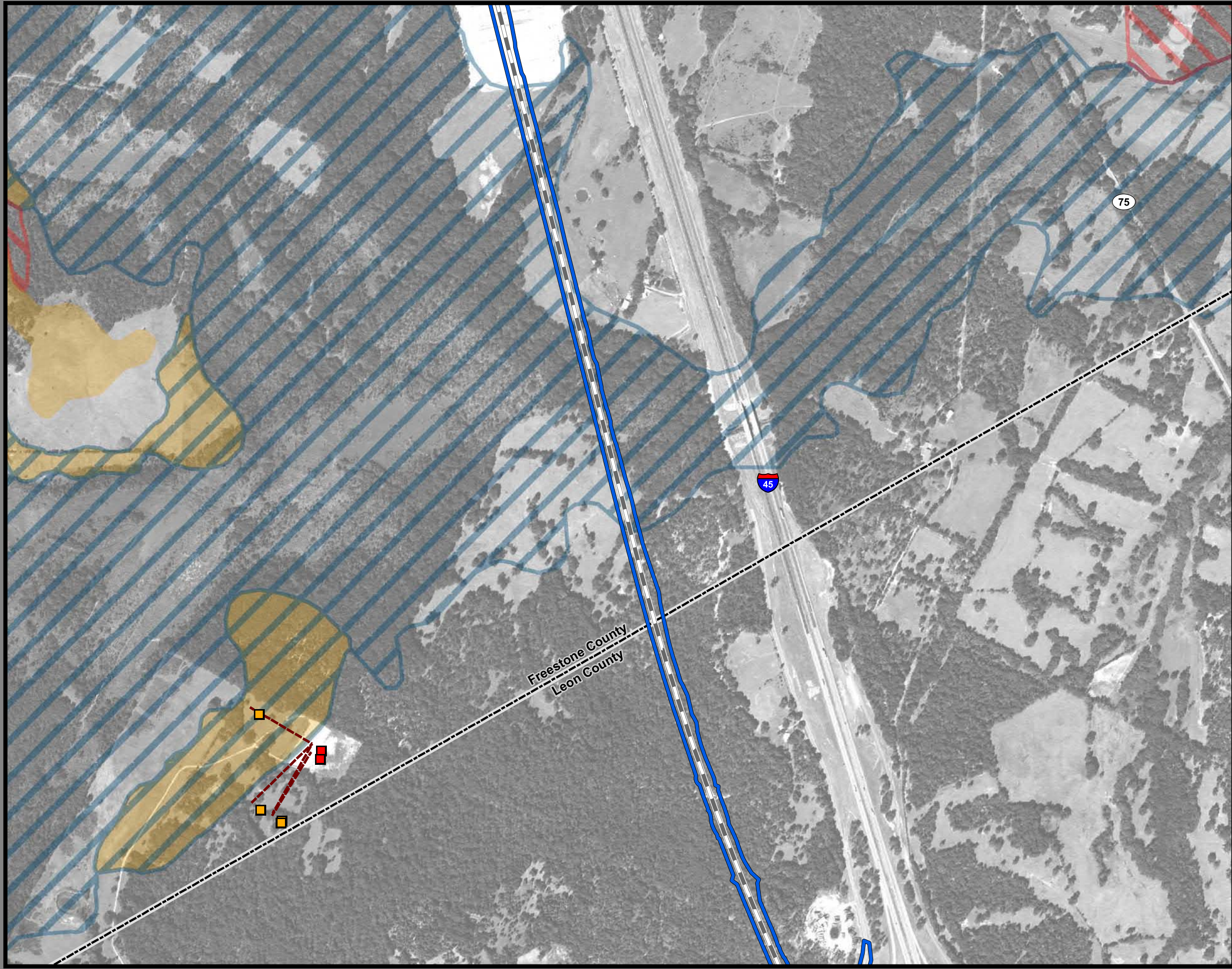
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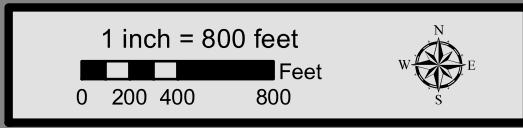
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Segment 3C
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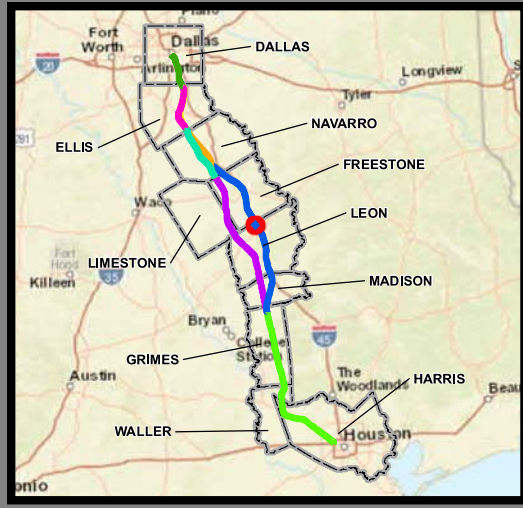
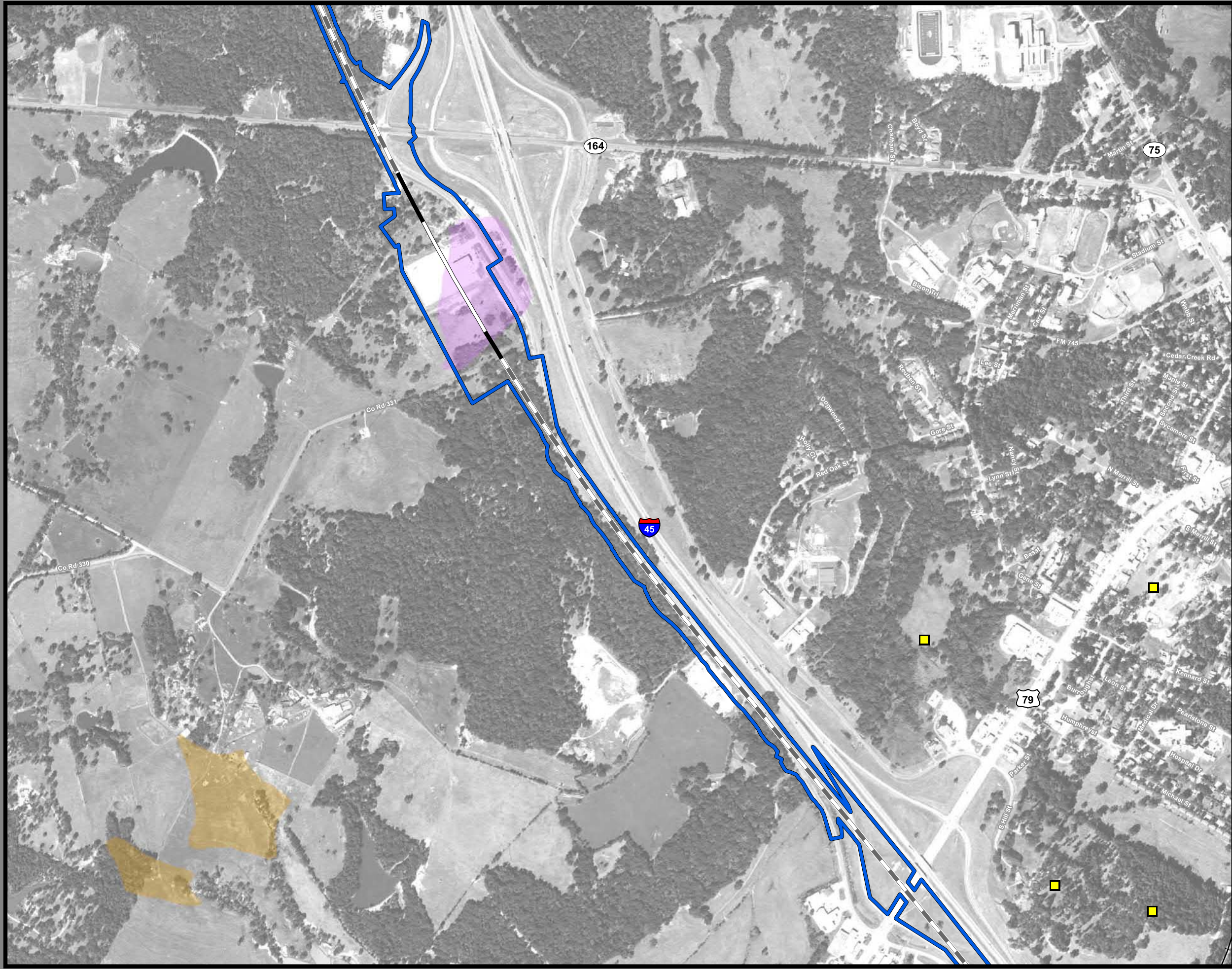
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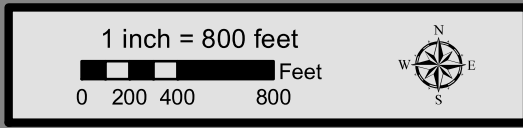
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 Mineral and Utility Resources
 Segment 3C
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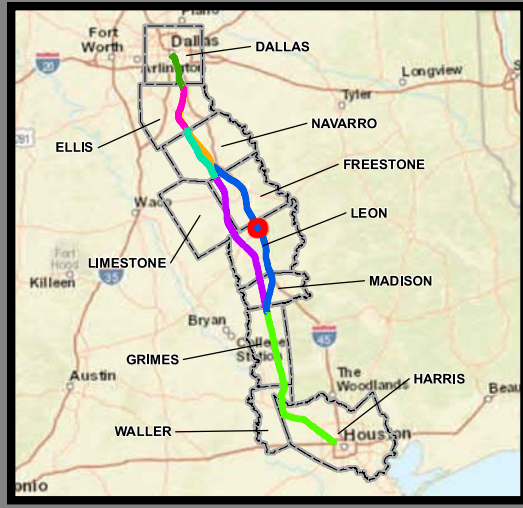
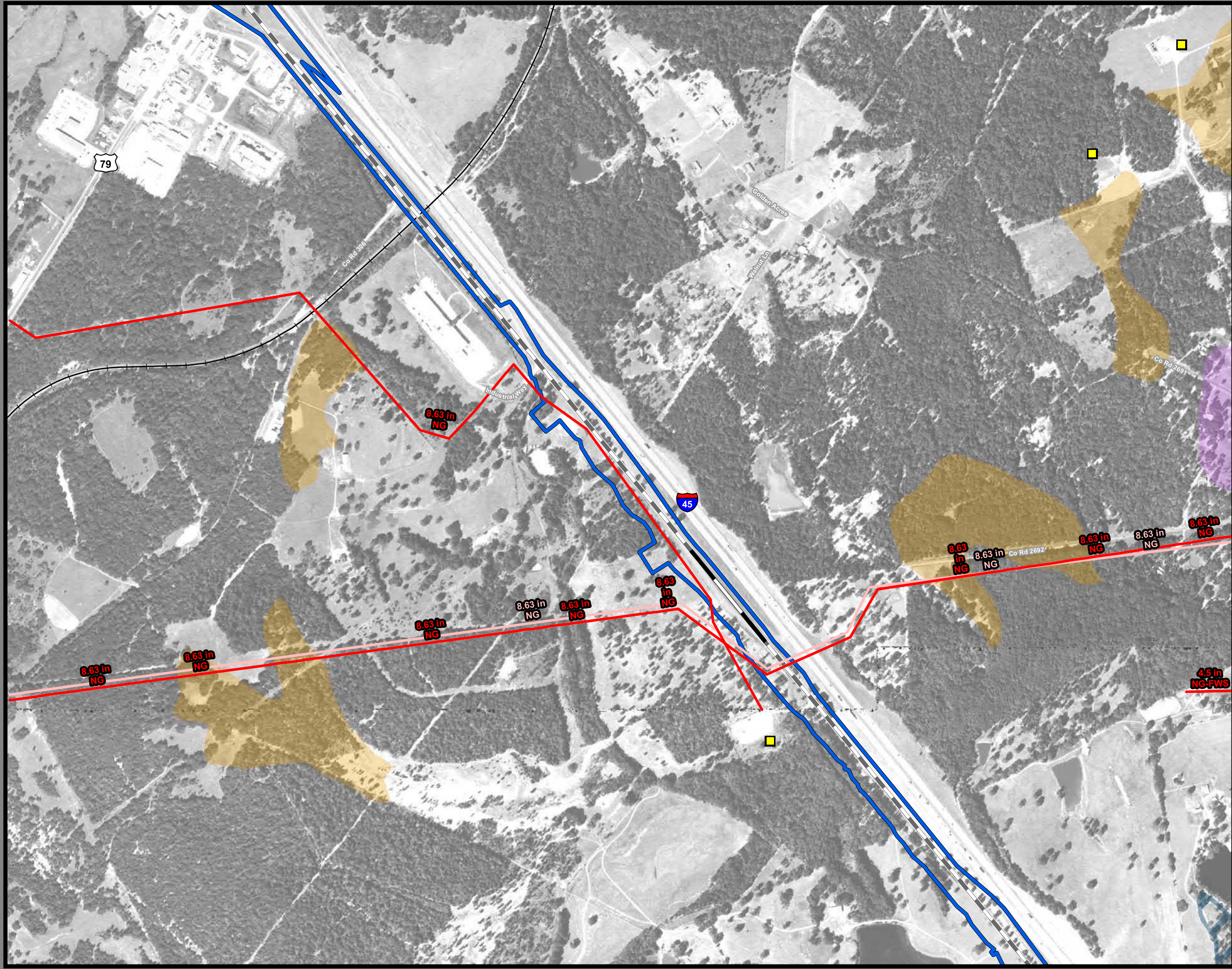
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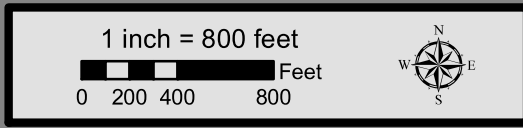
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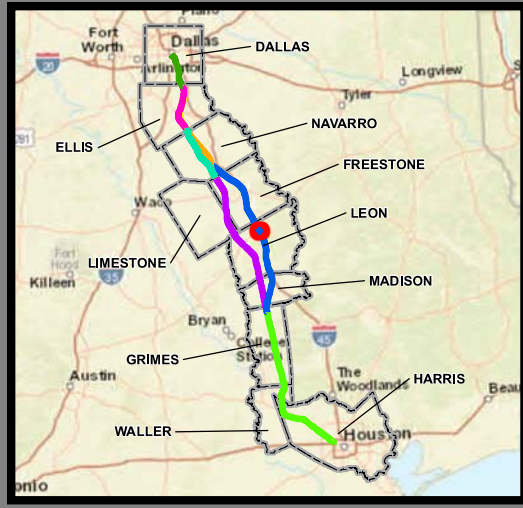
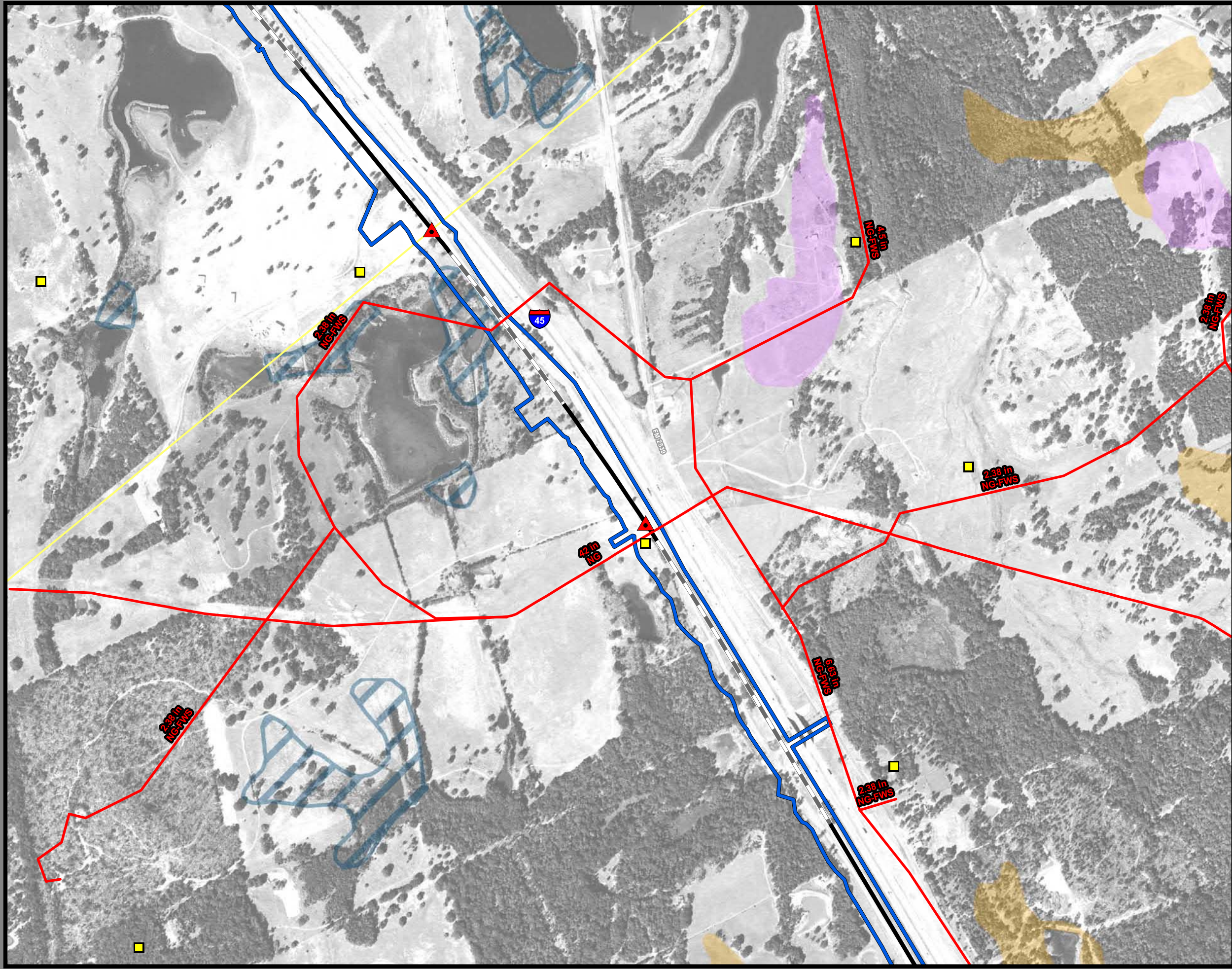
Legend

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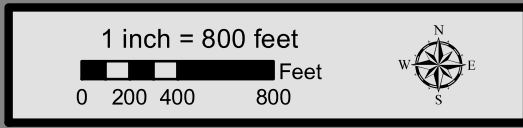
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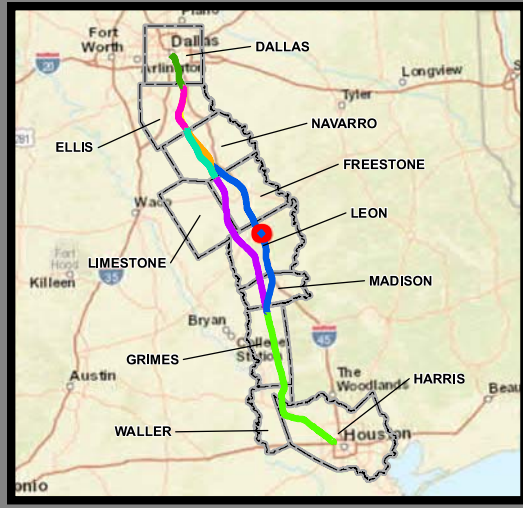
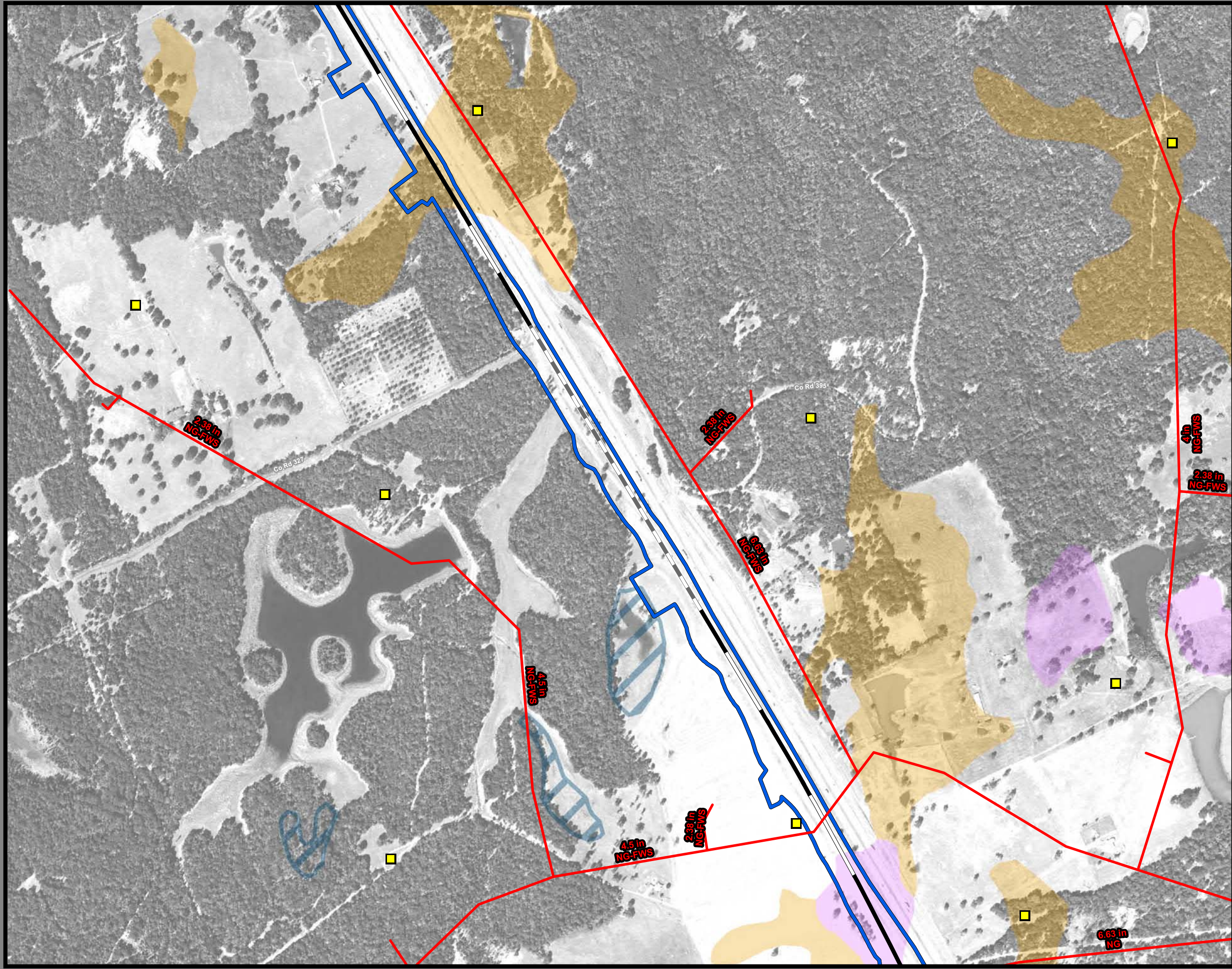
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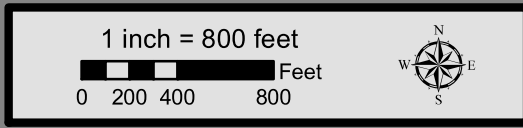
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Segment 3C
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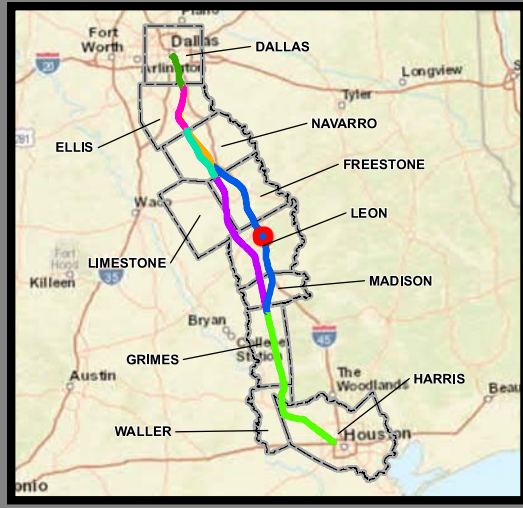
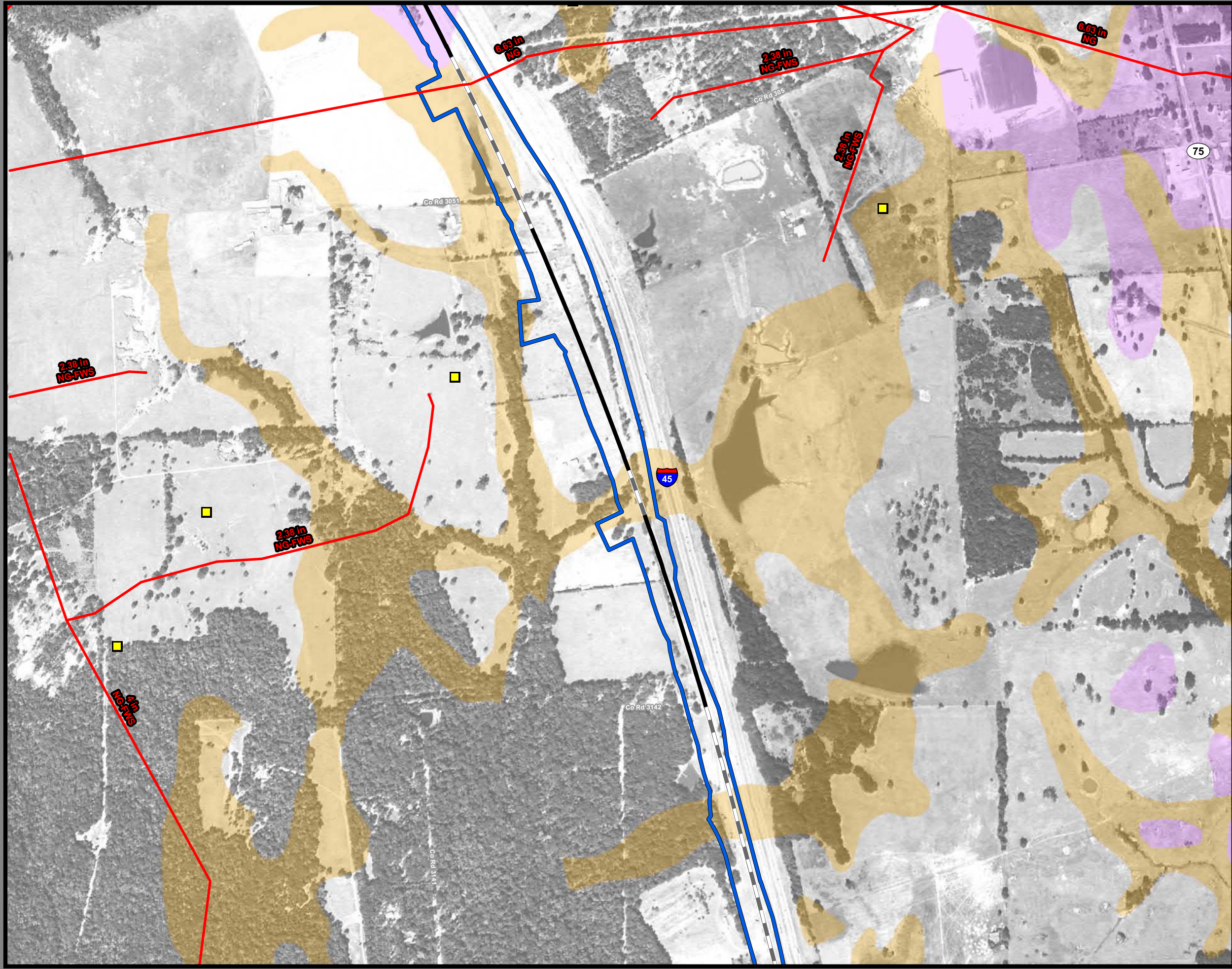
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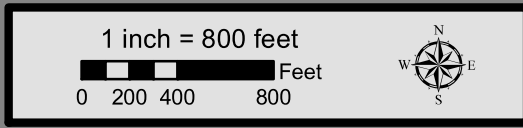
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Segment 3C
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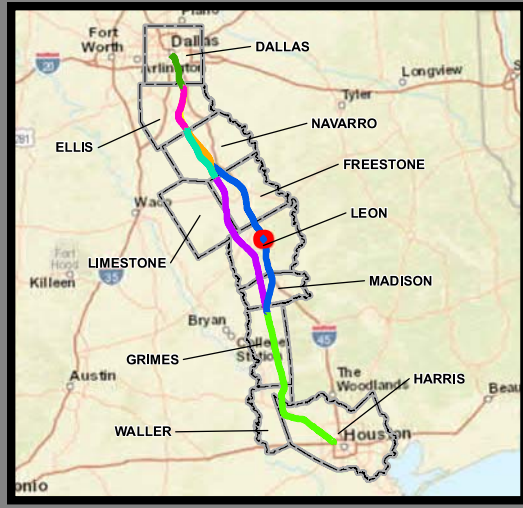
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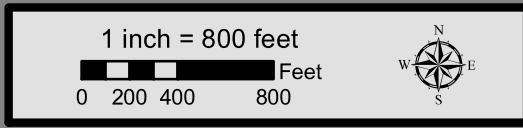
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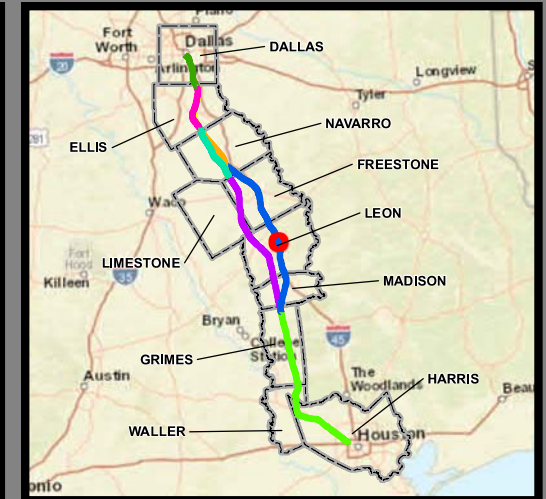
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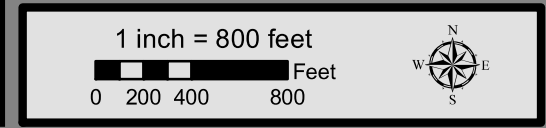
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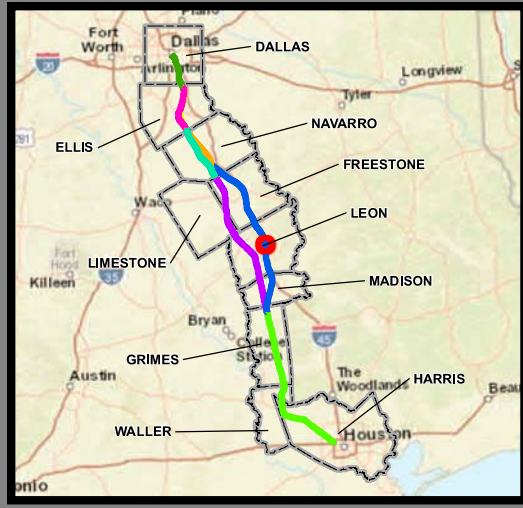
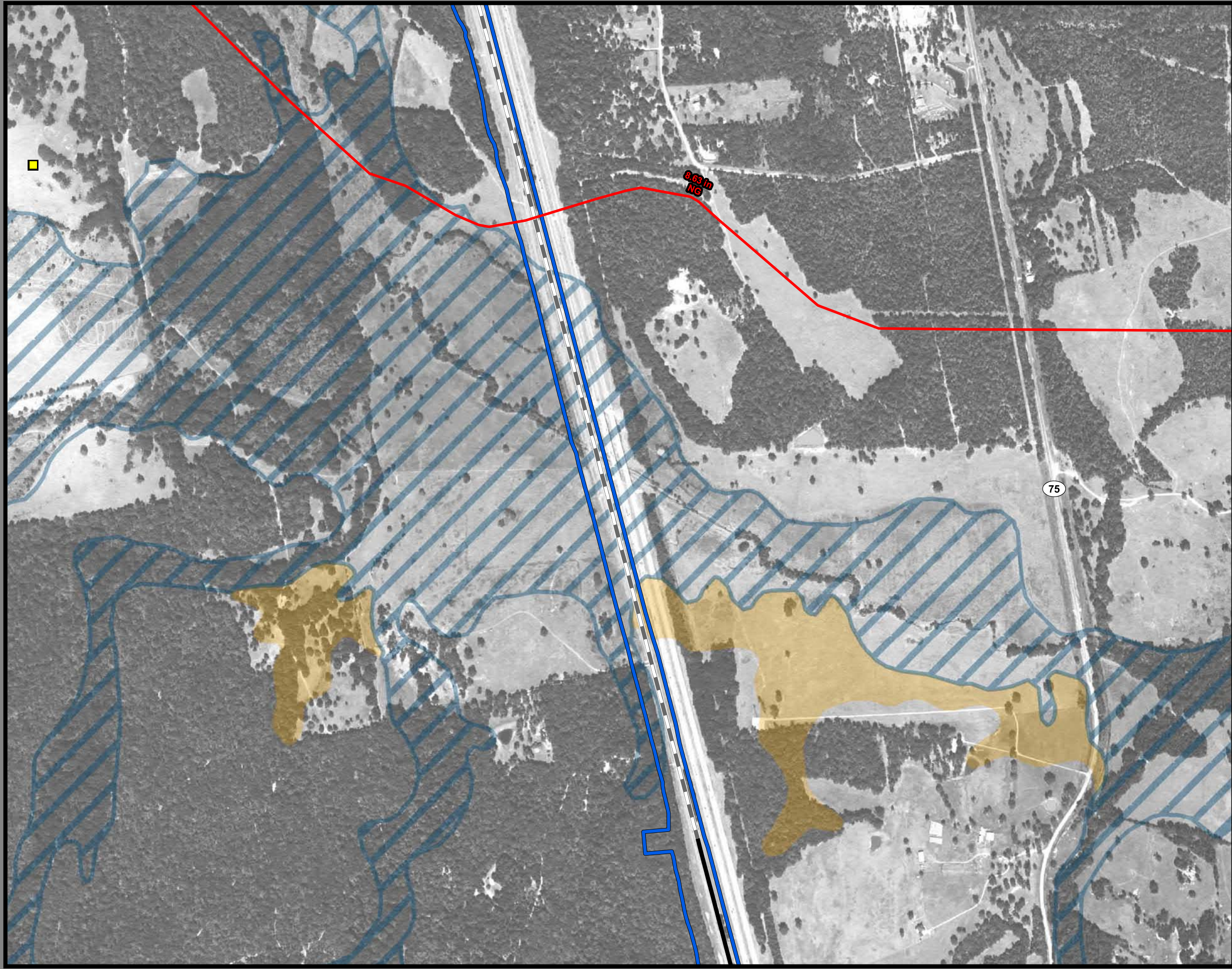
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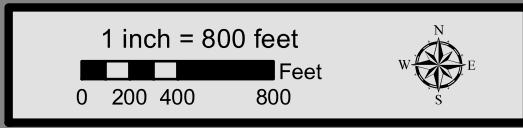
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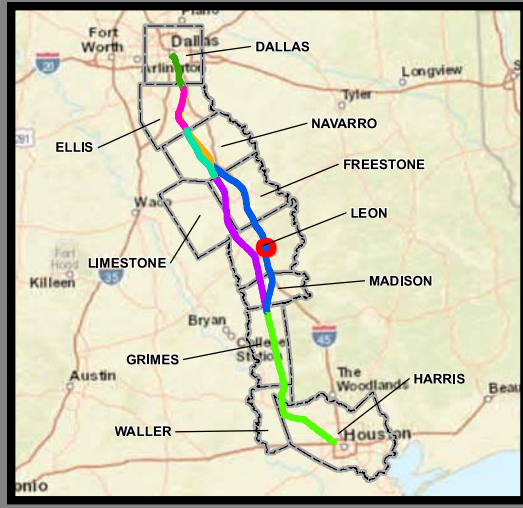
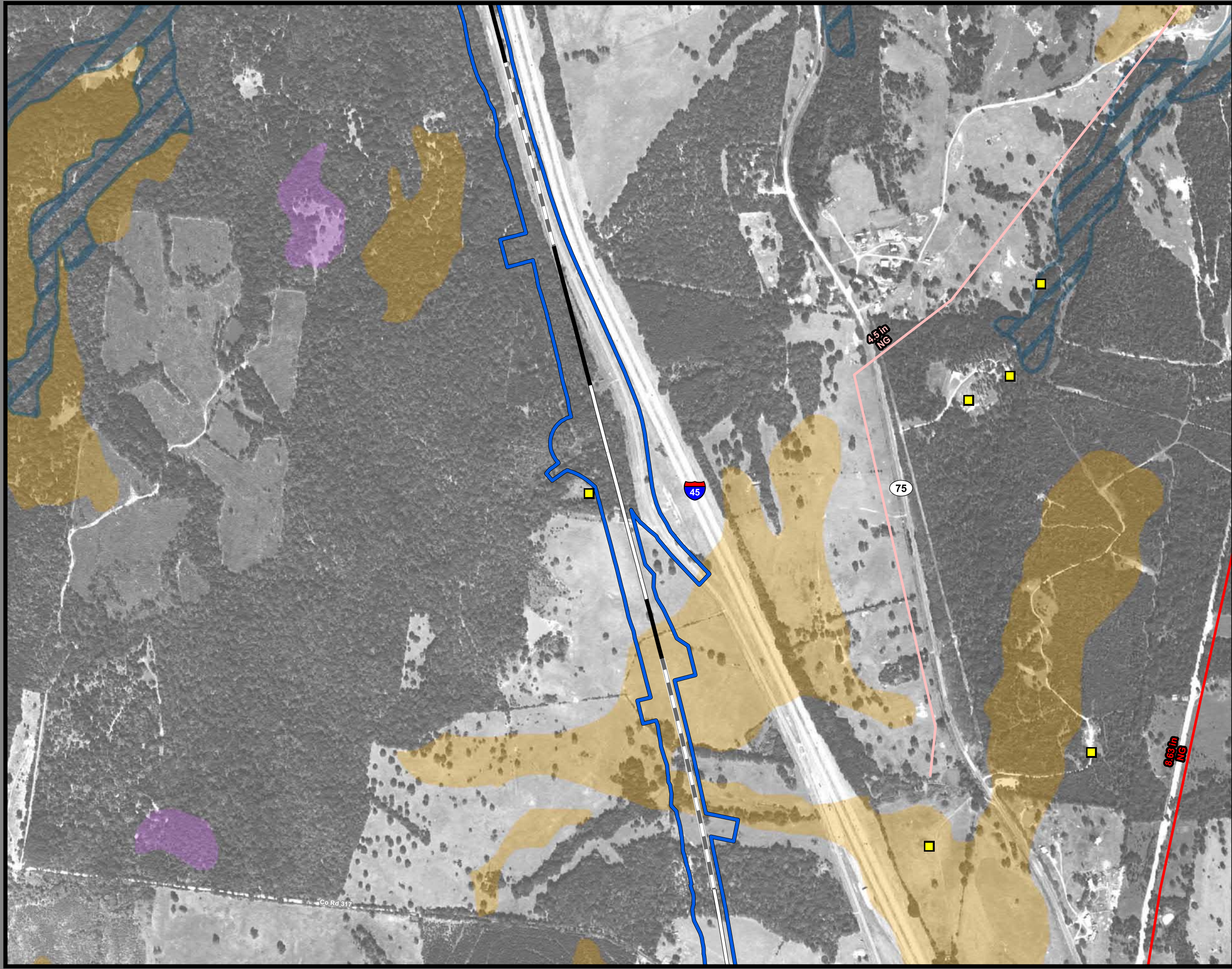
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 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





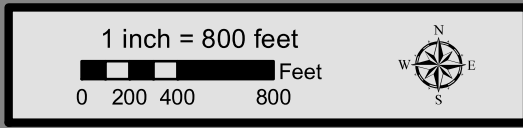
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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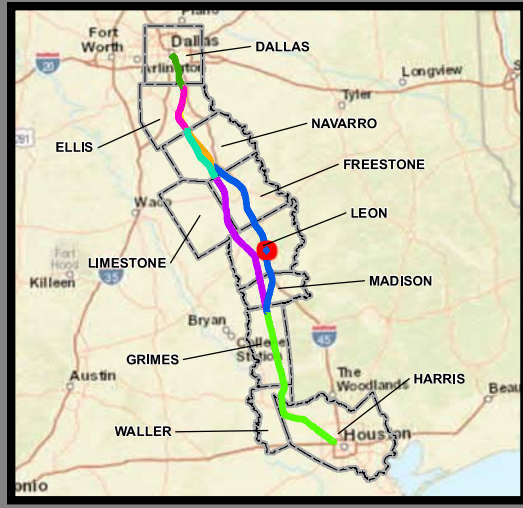
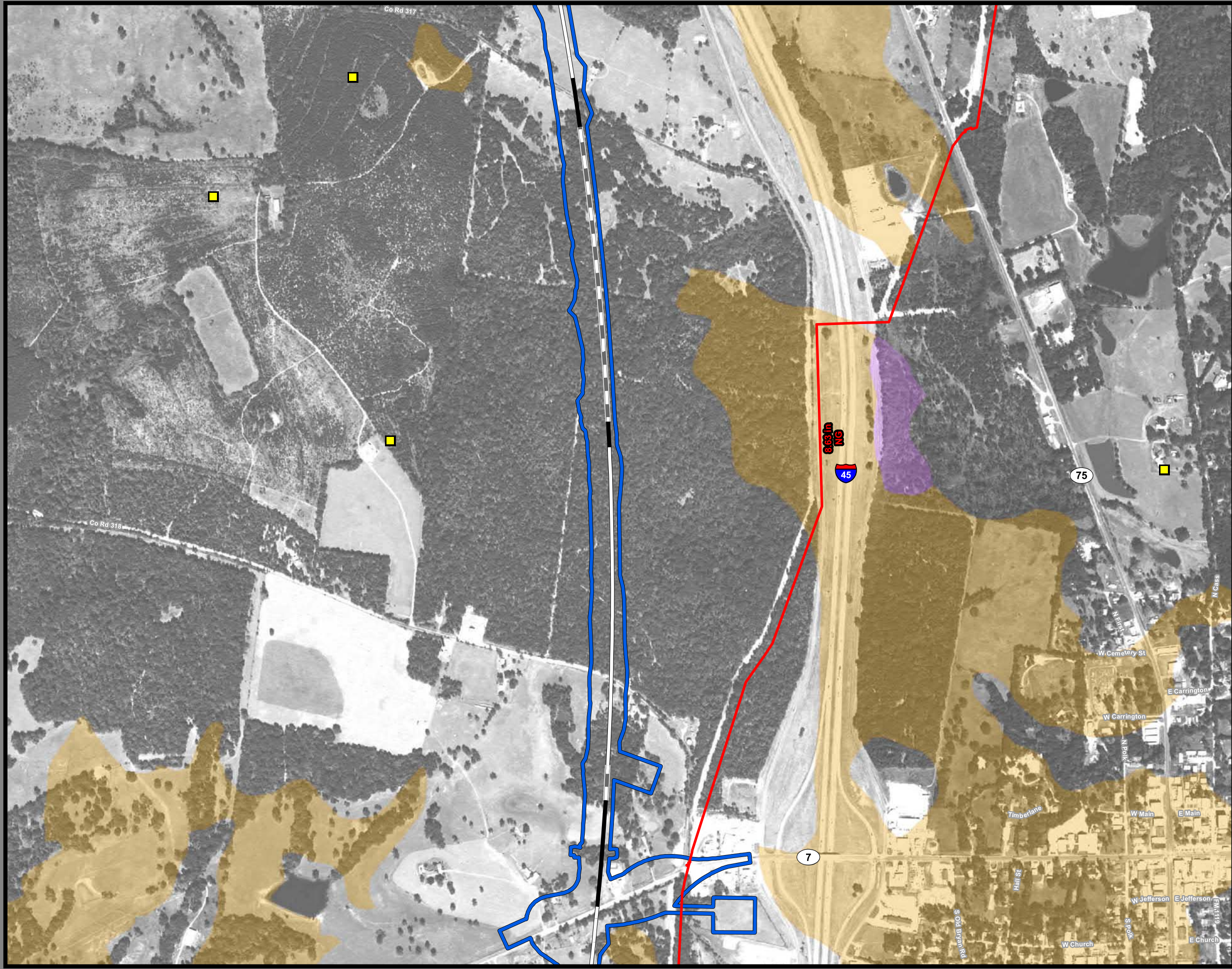
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





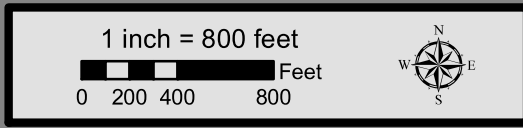
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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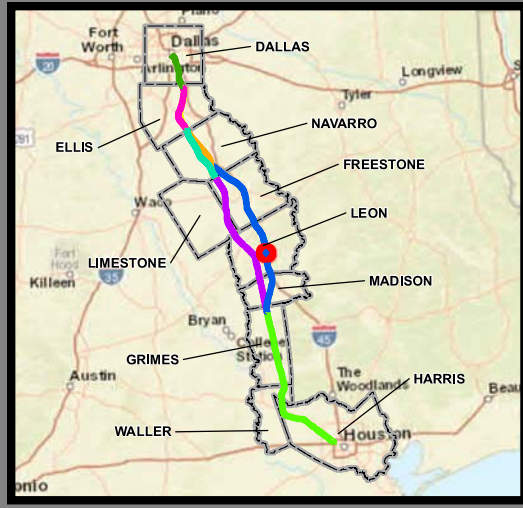
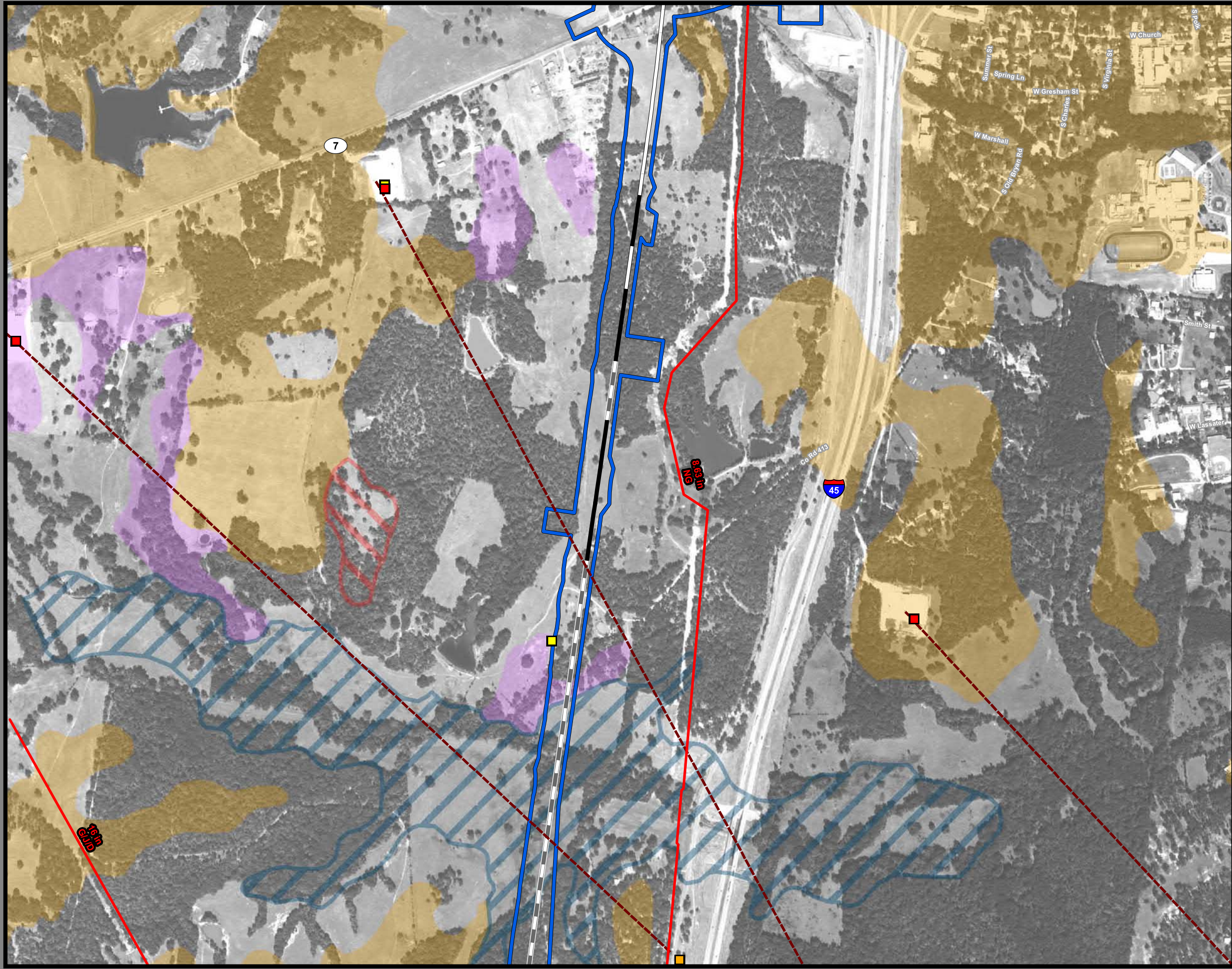
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





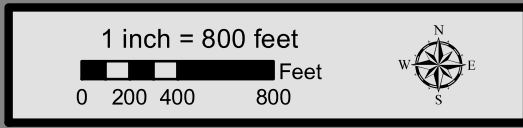
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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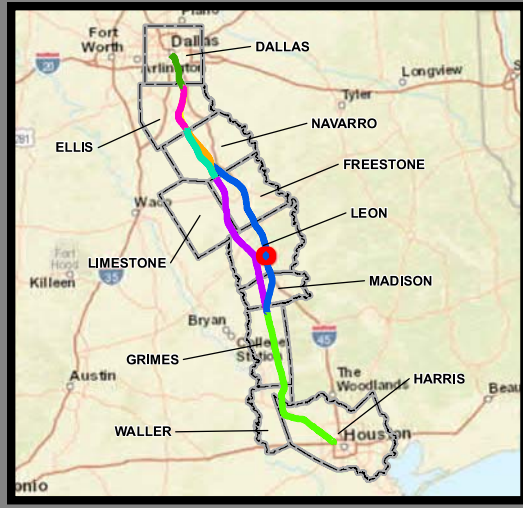
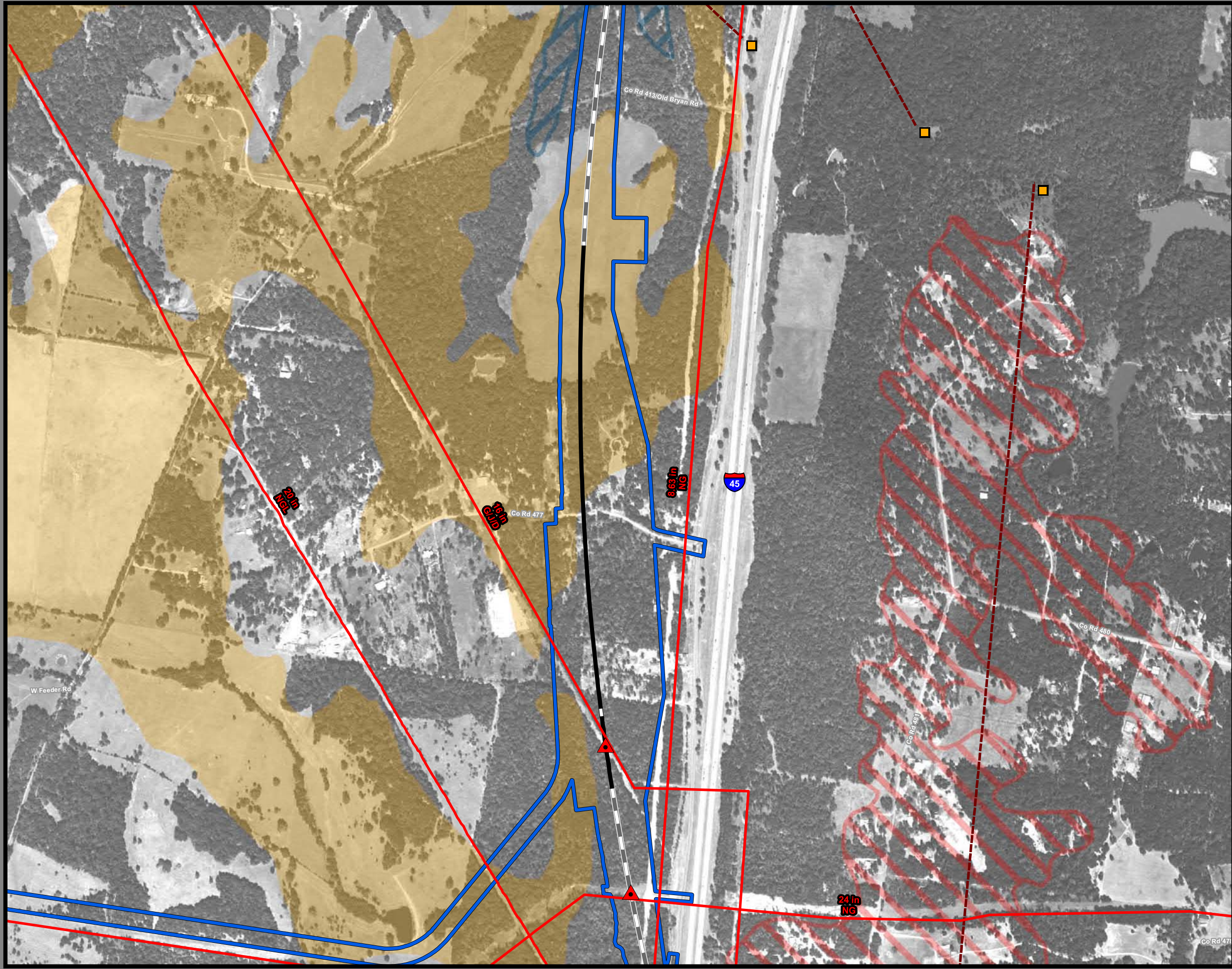
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





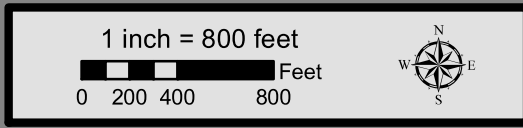
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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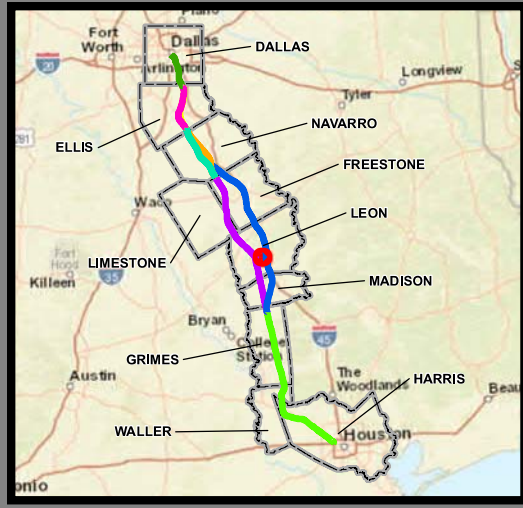
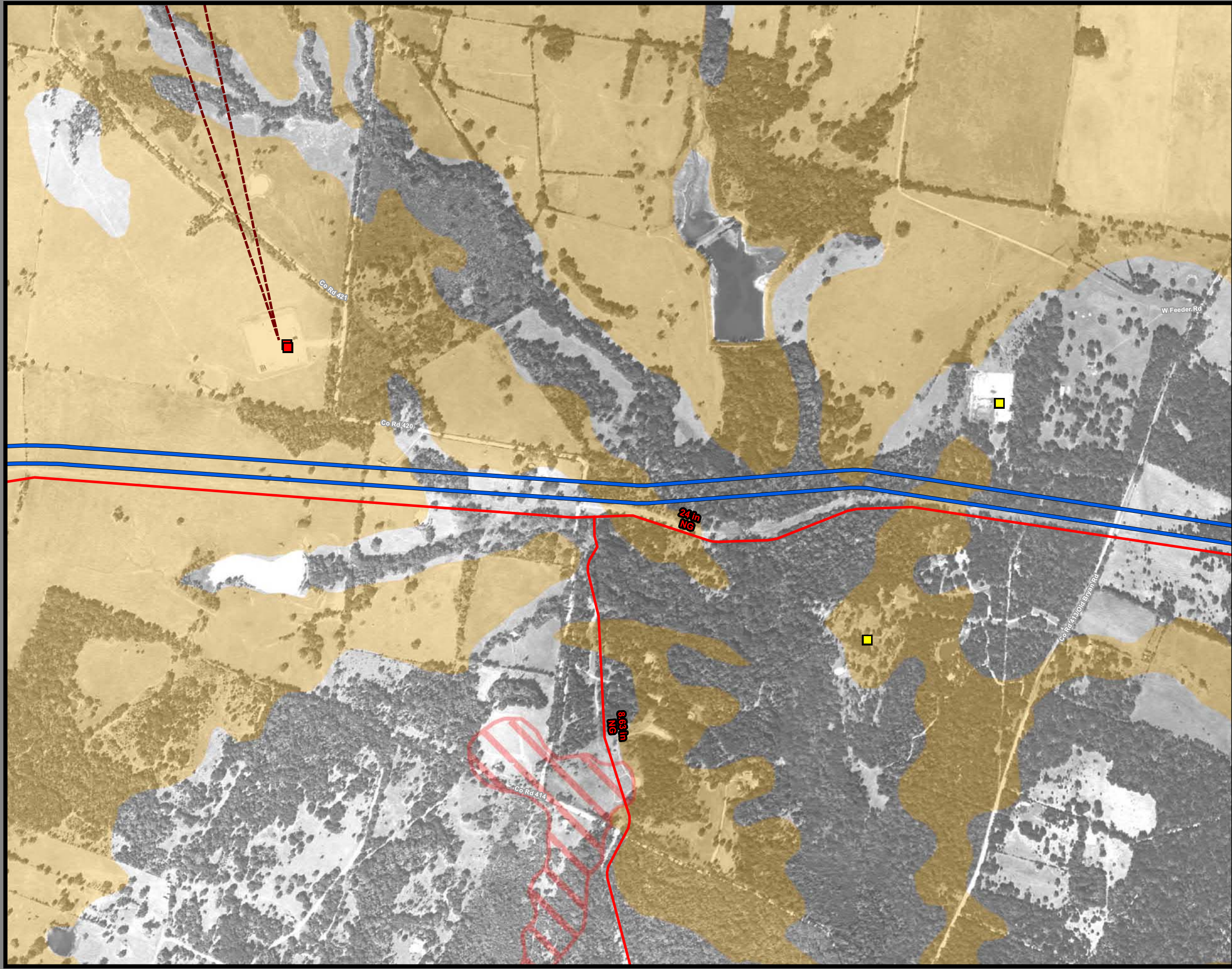
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





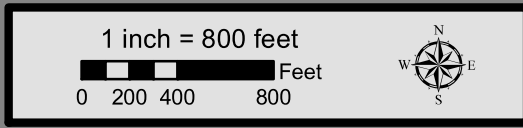
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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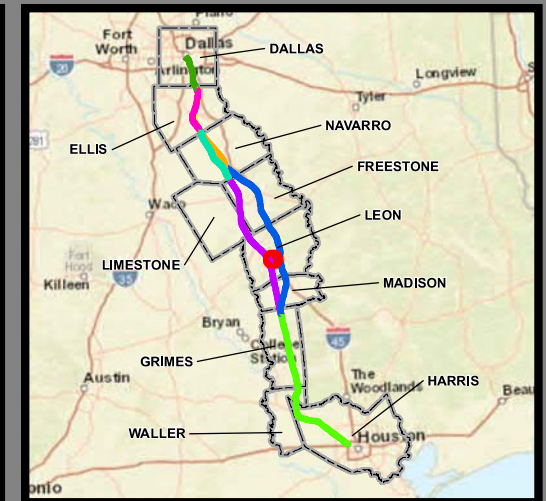
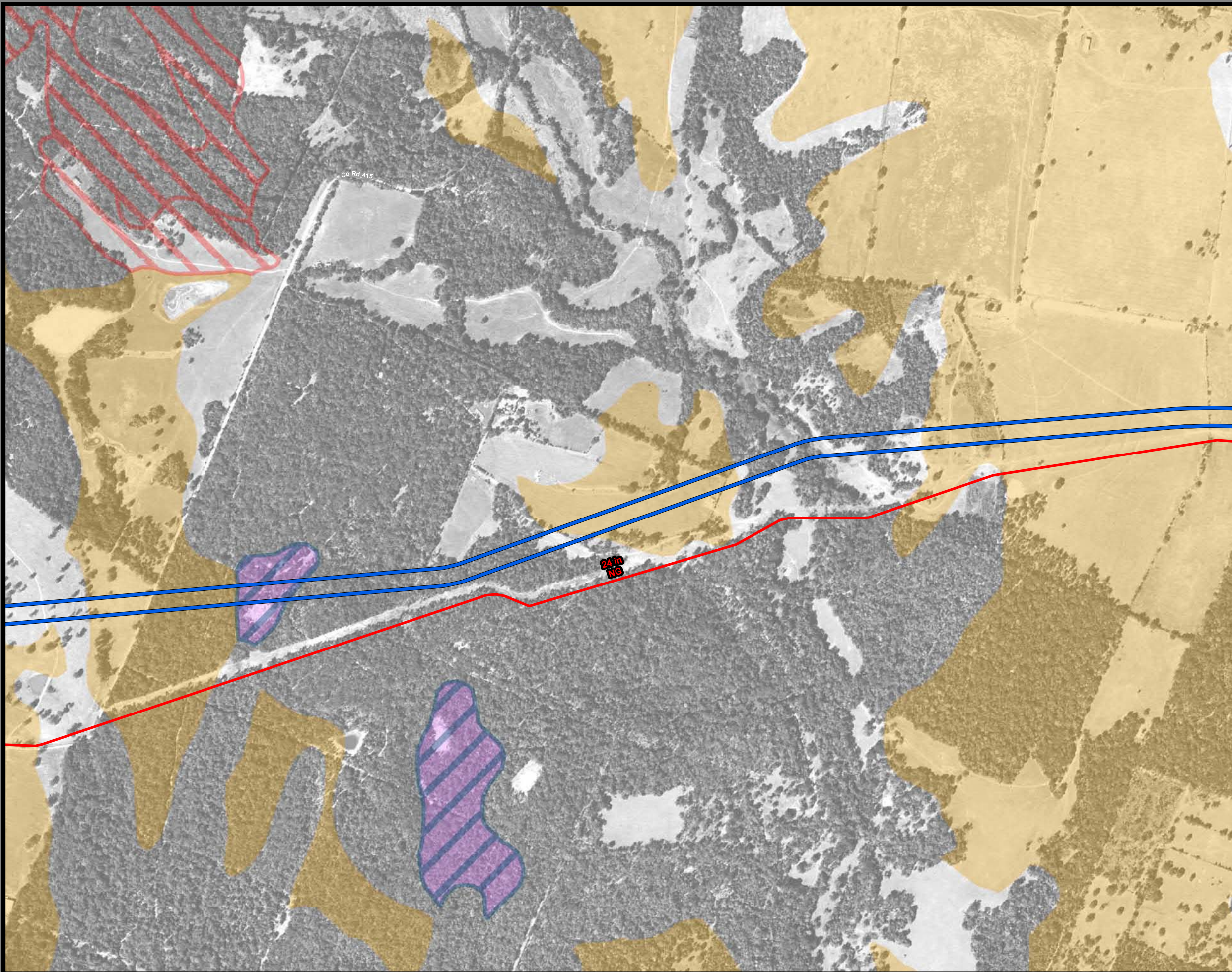
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





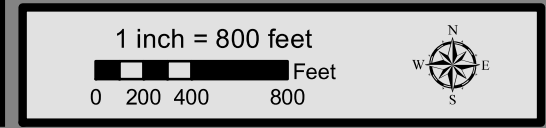
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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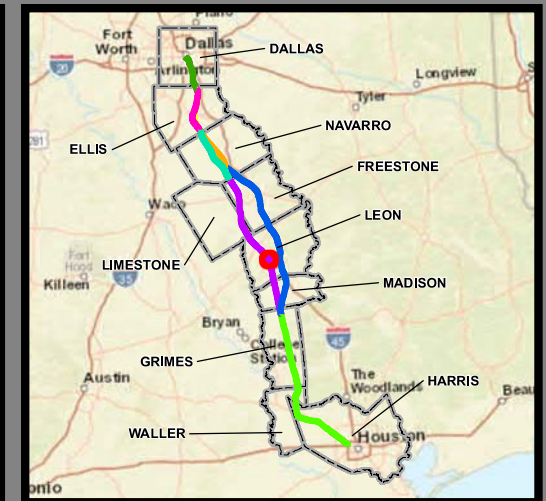
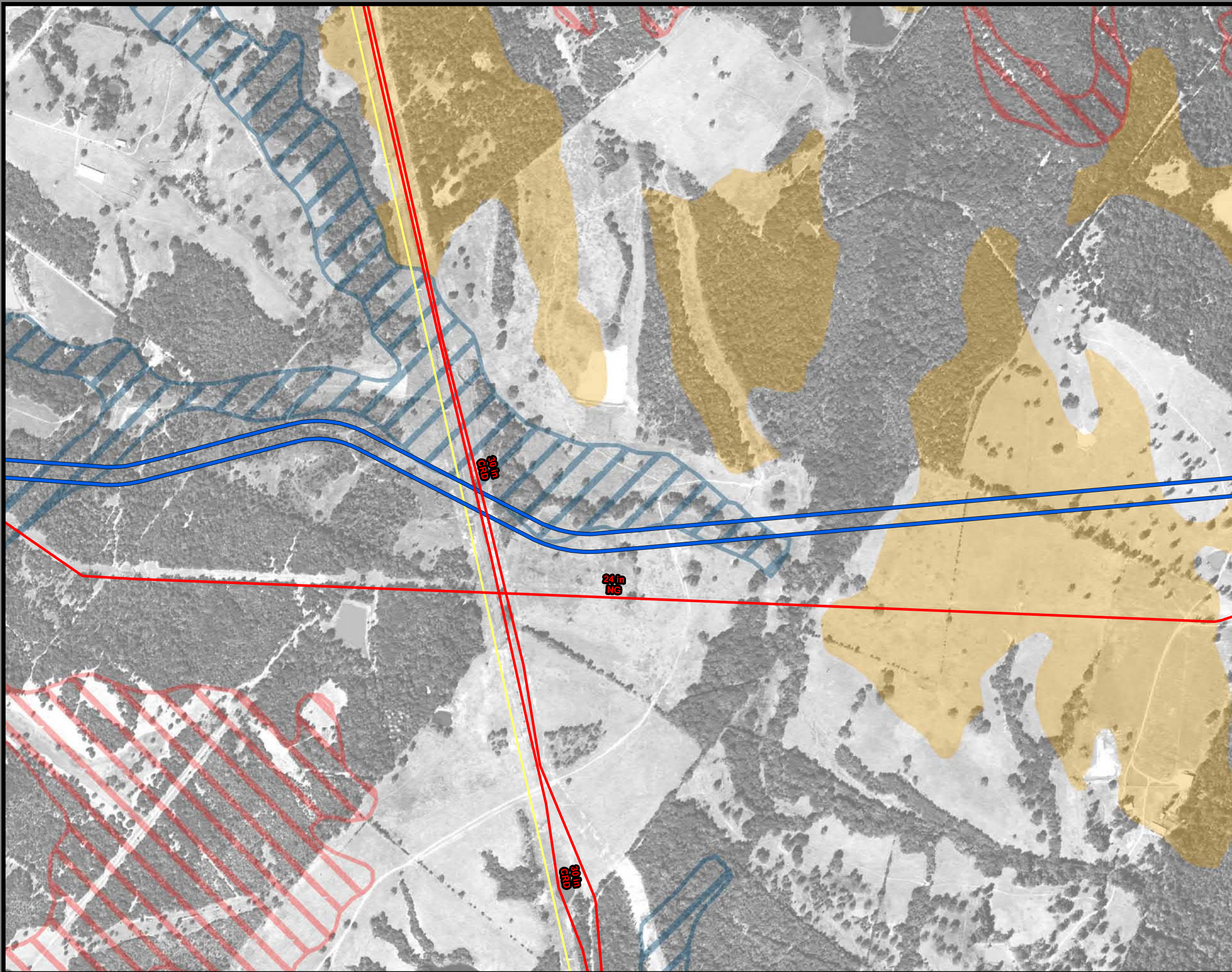
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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Aerial Imagery: USDA NAIP 2014





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Mineral and Utility Resources
Segment 3C
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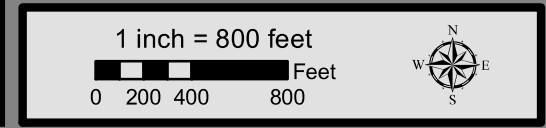
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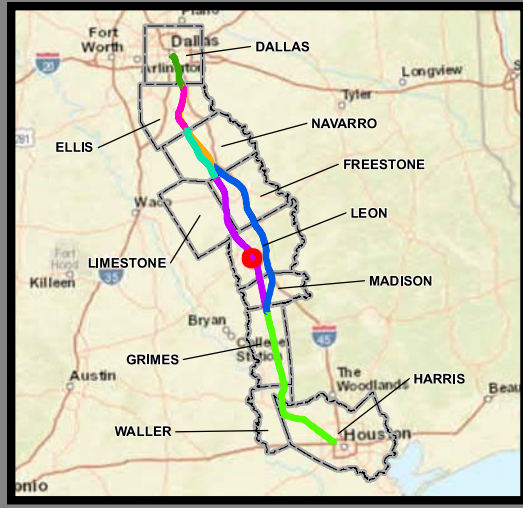
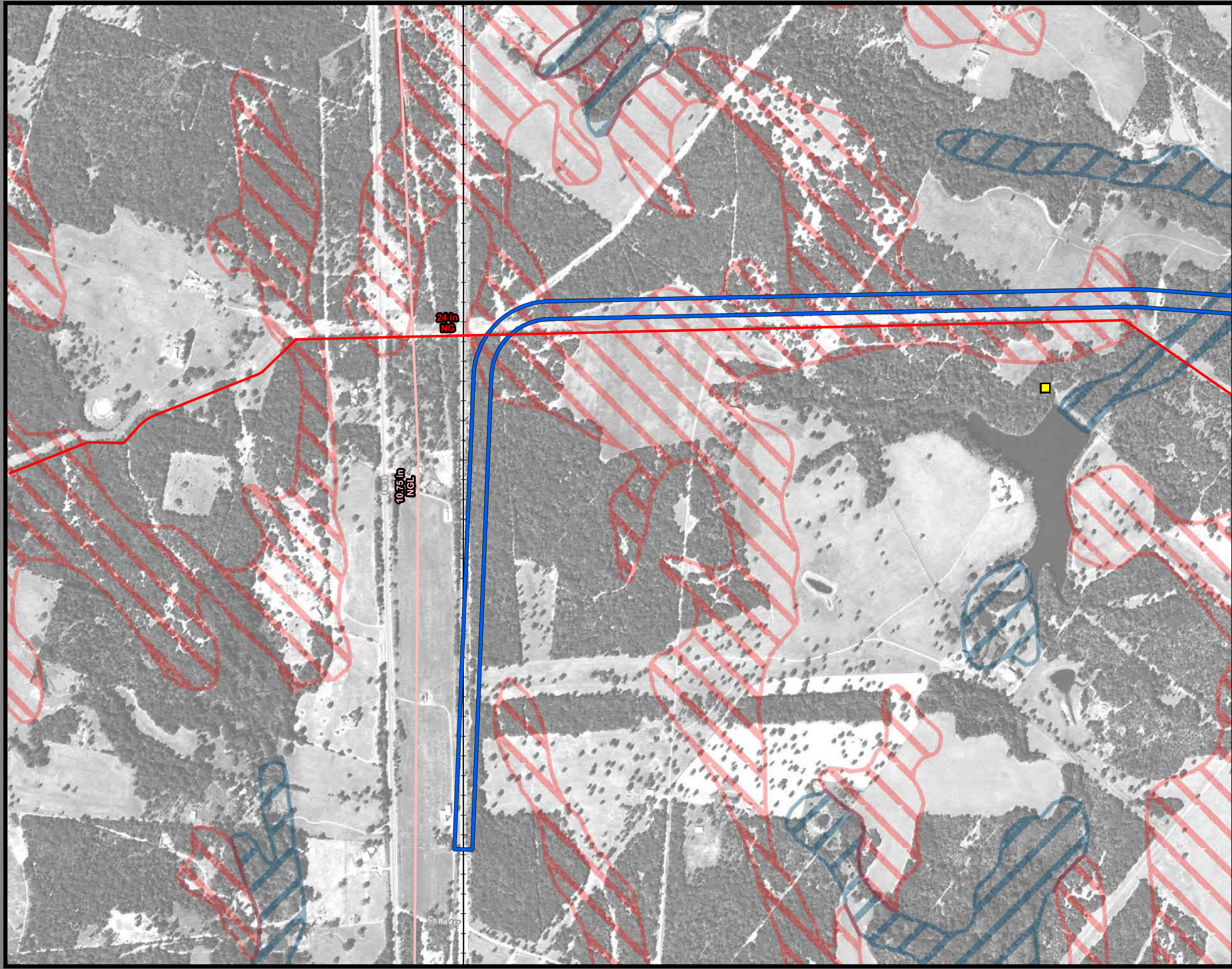
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
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	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 182.

Abbreviated Pipeline Labels:
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Aerial Imagery: USDA NAIP 2014





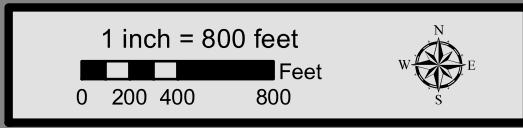
**Dallas to Houston
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Segment 3C
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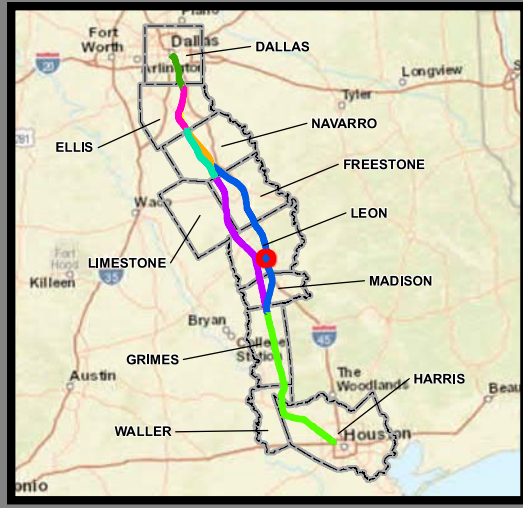
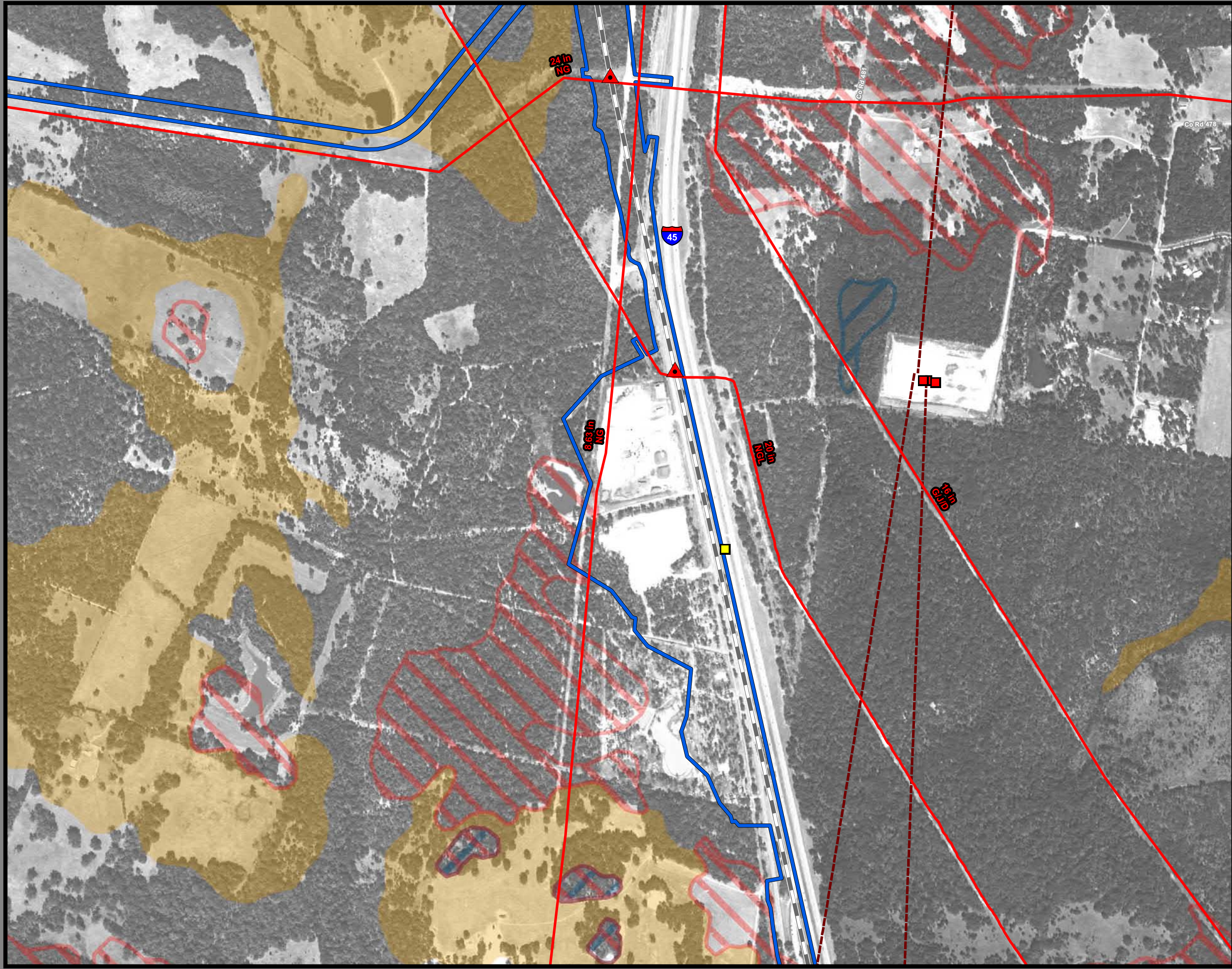
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
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Aerial Imagery: USDA NAIP 2014





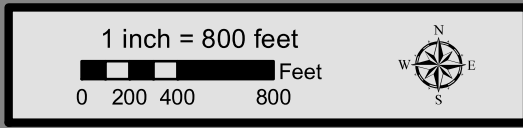
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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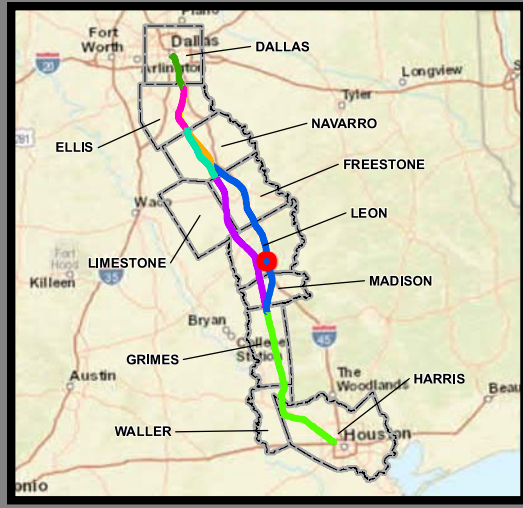
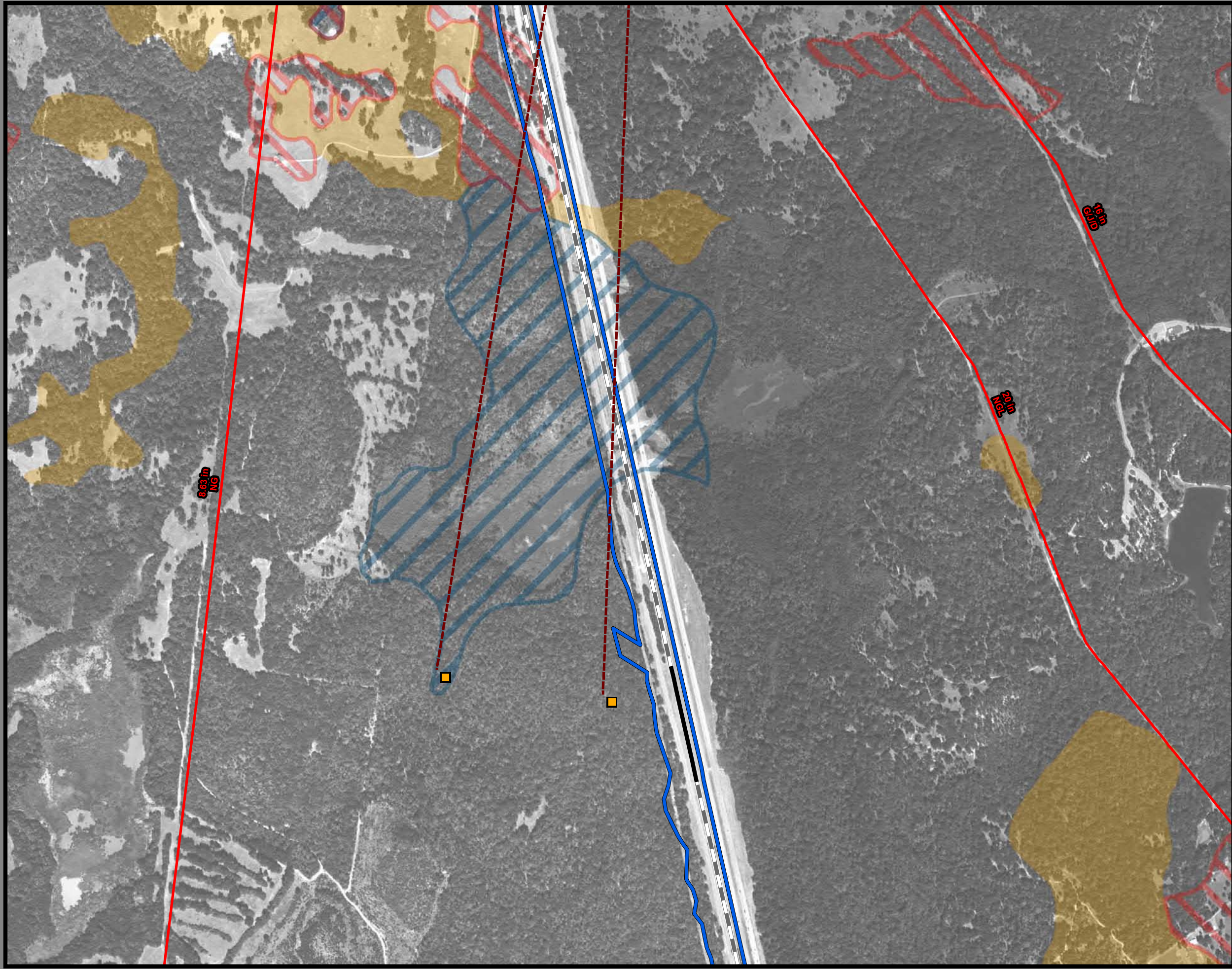
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
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Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
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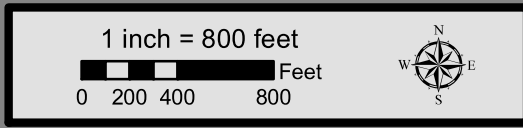
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 134 of 257**

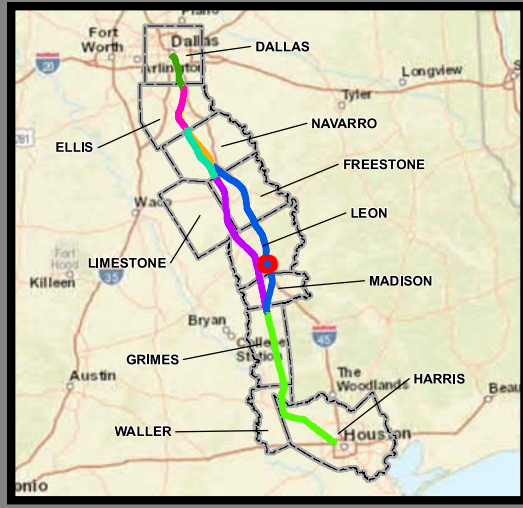
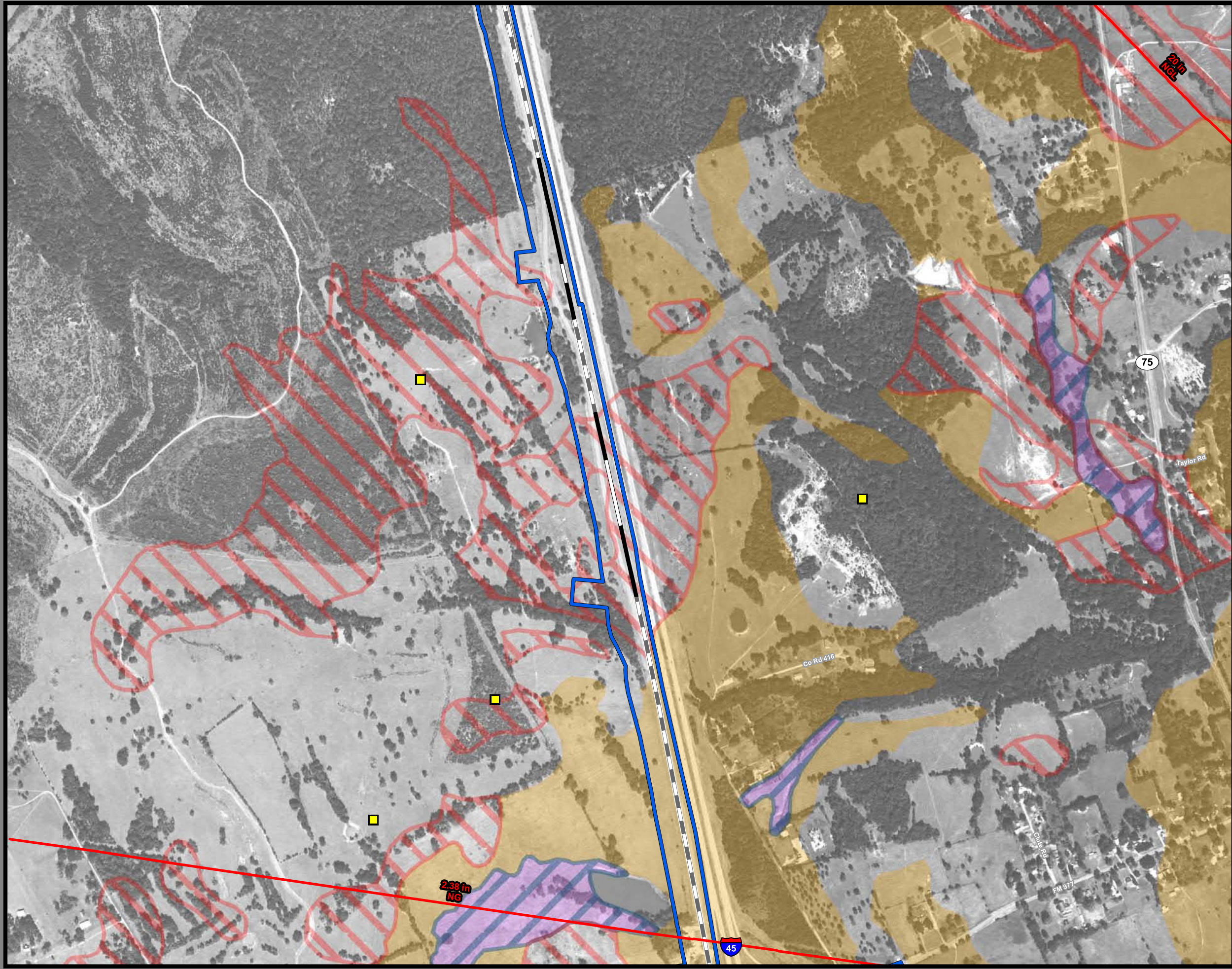
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
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Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
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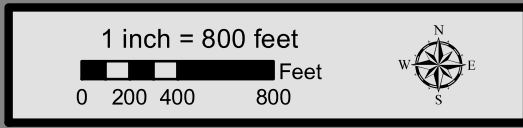
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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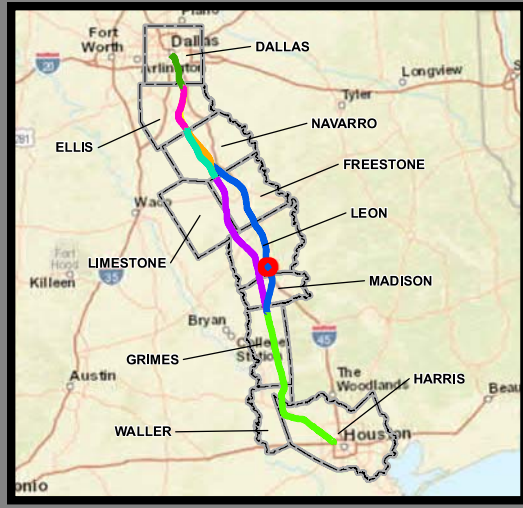
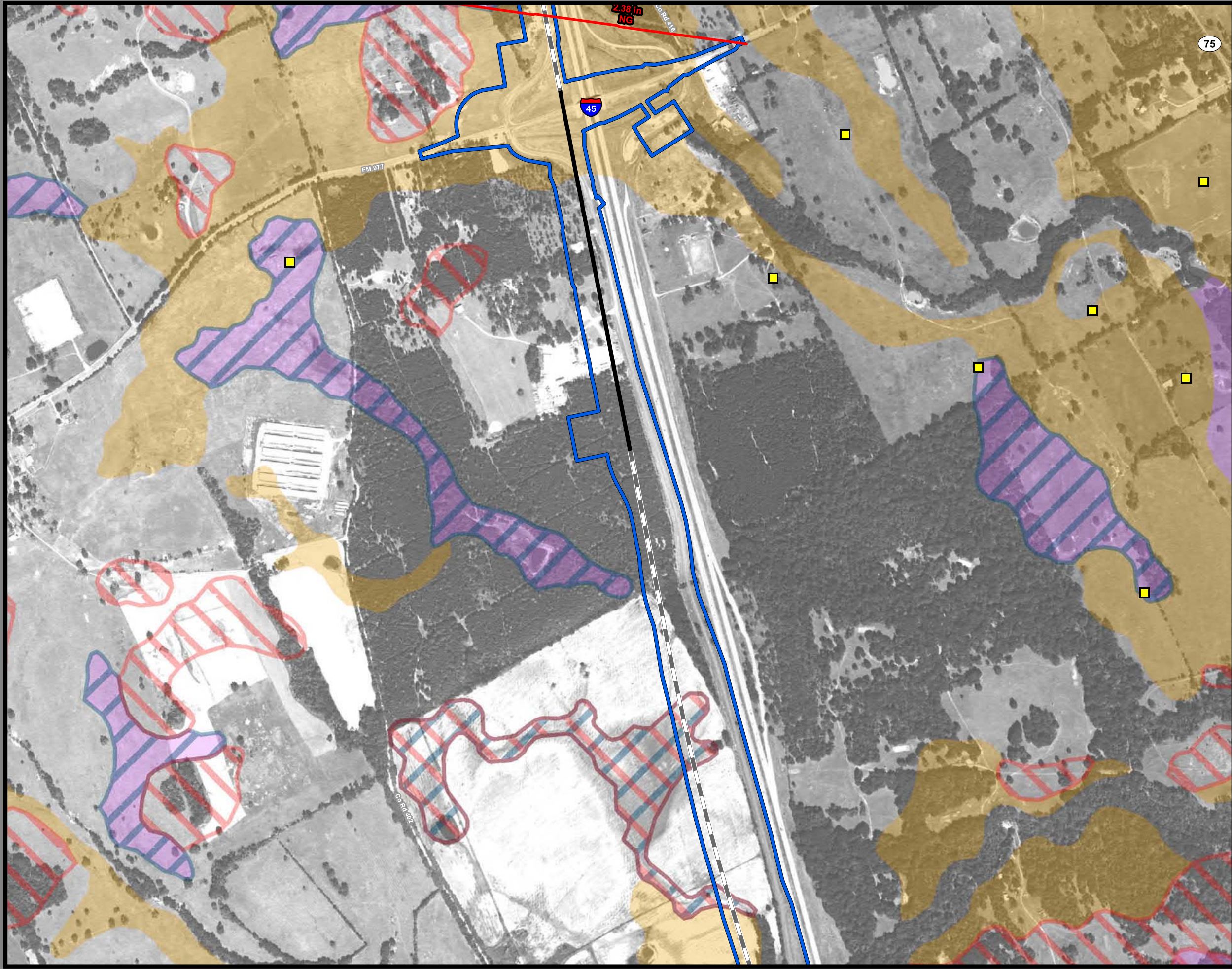
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
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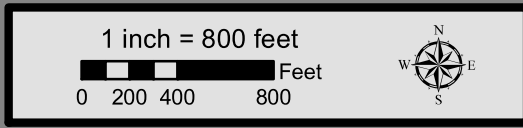
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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 136 of 257**

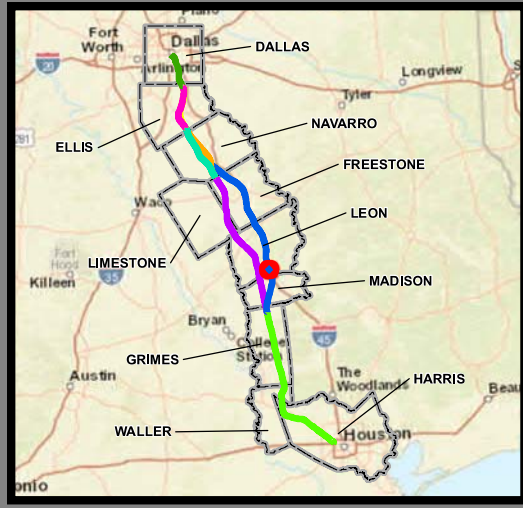
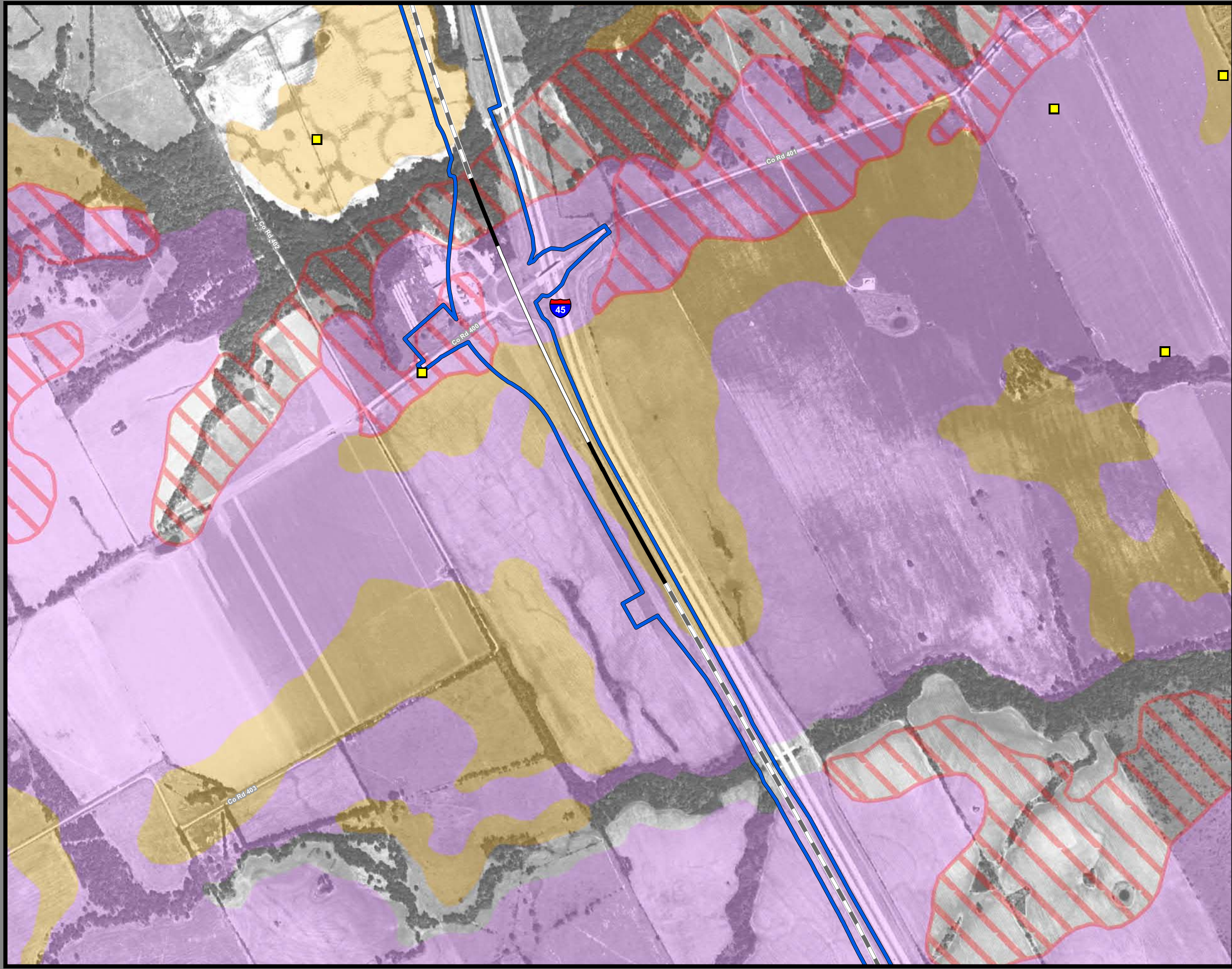
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
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