

**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 138 of 257**

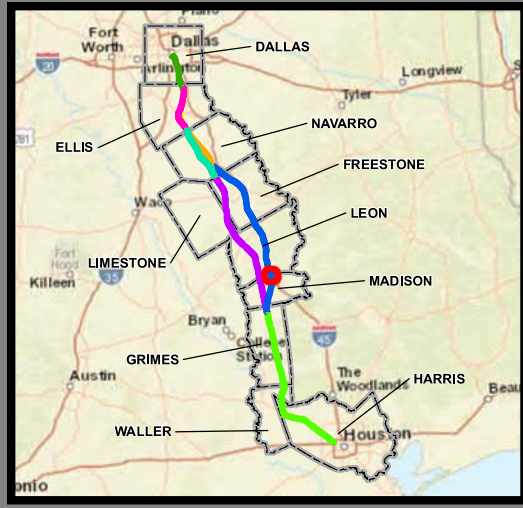
Legend

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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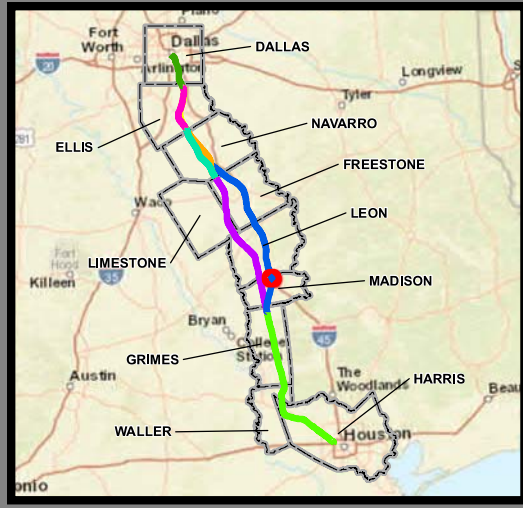
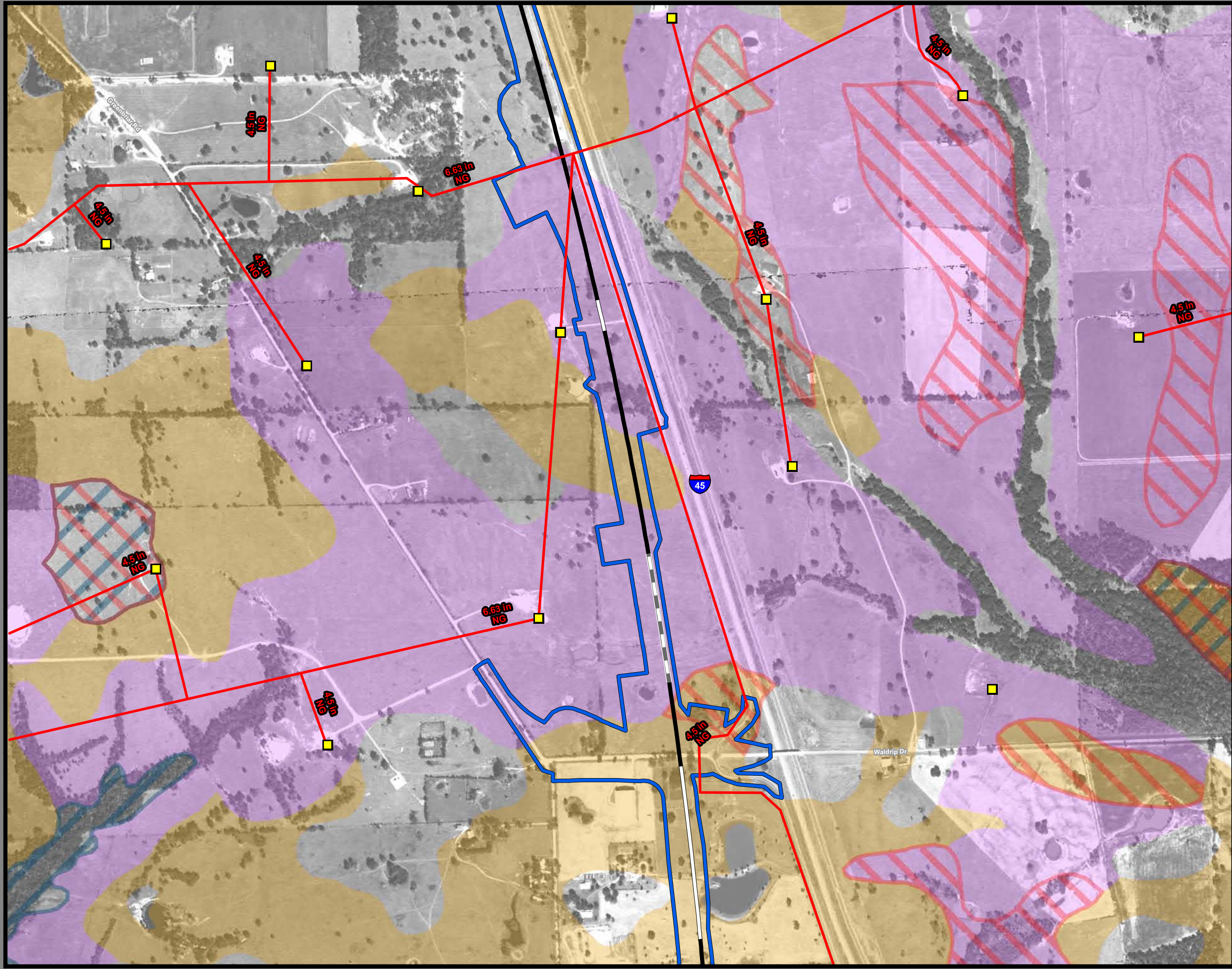
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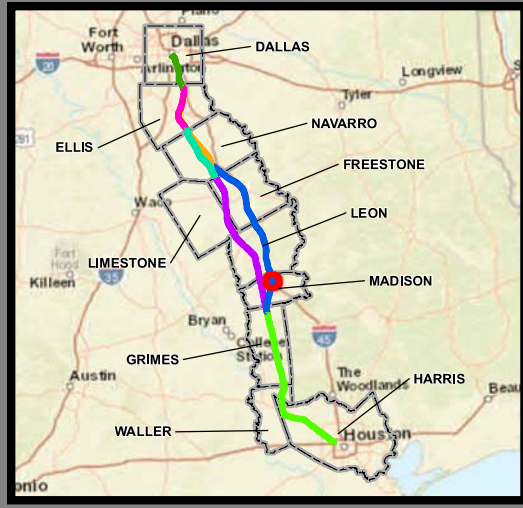
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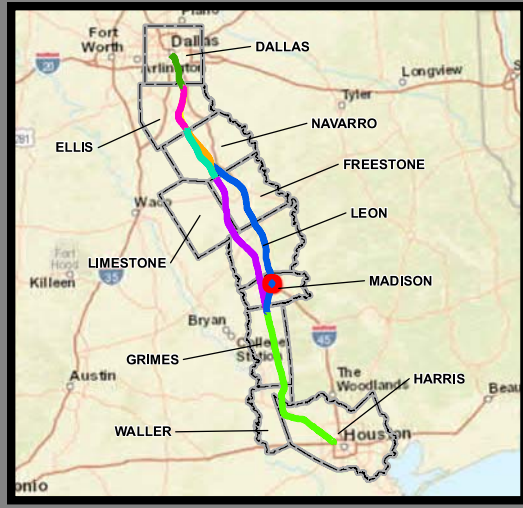
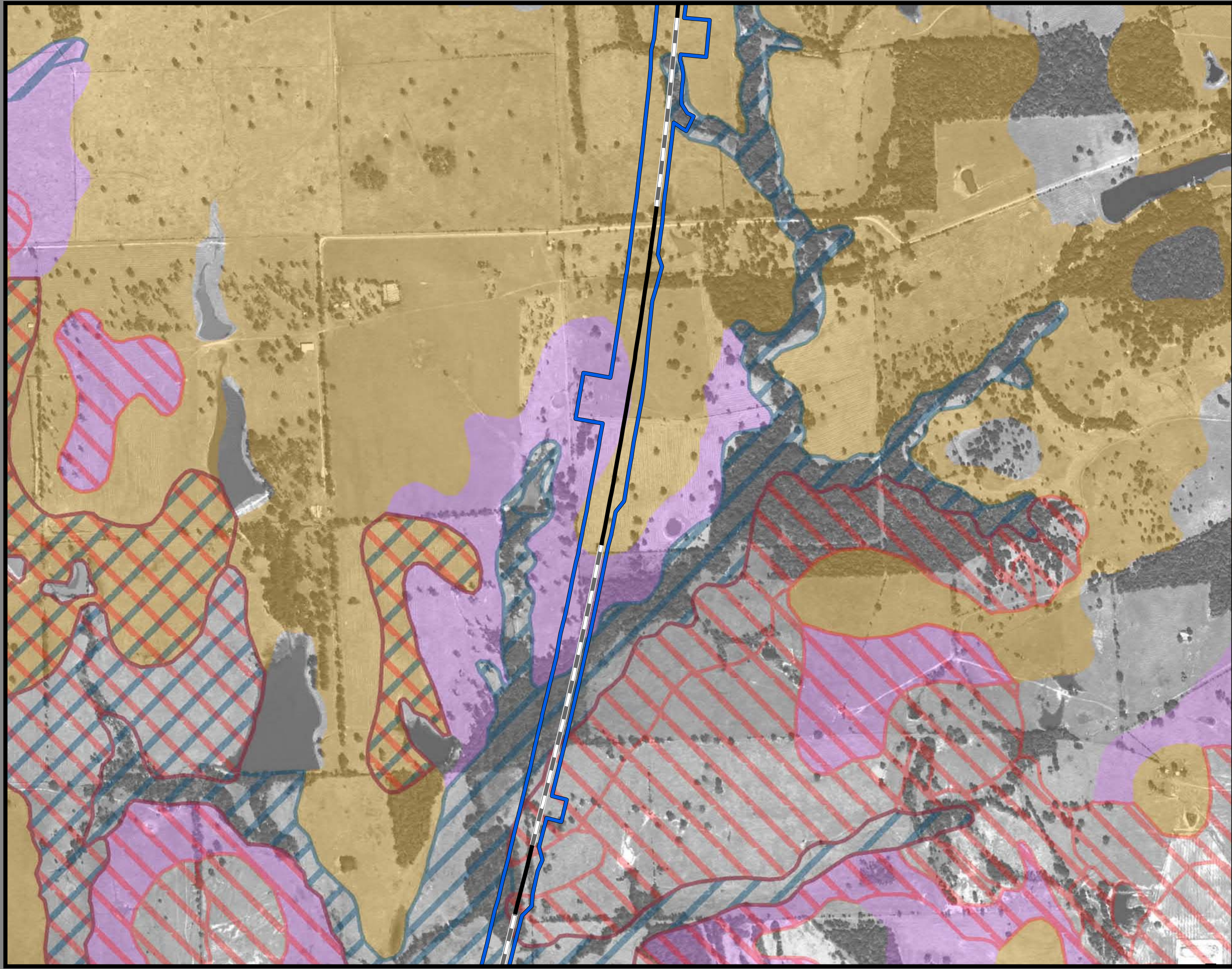
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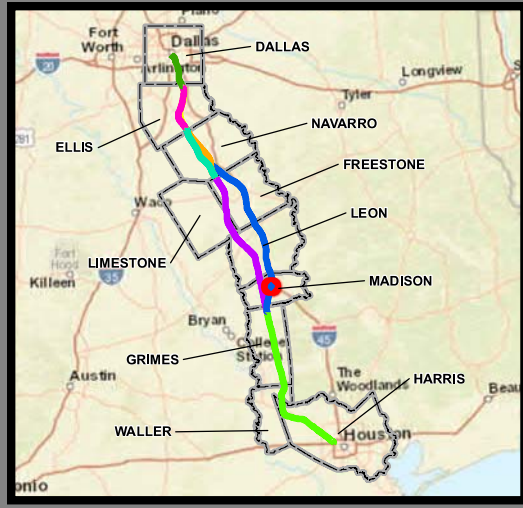
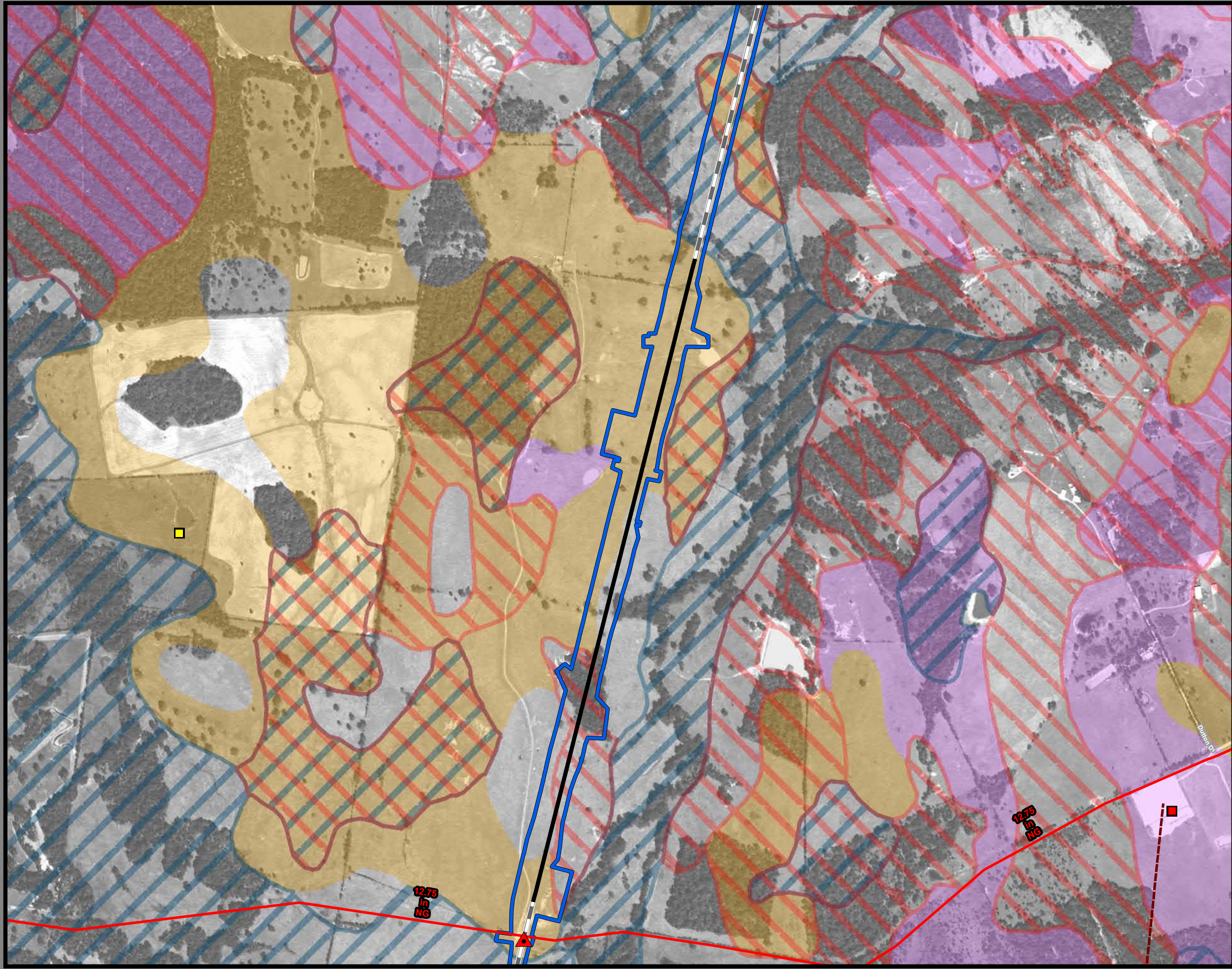
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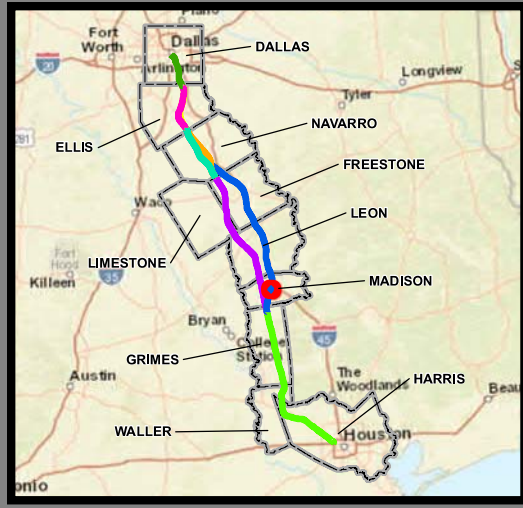
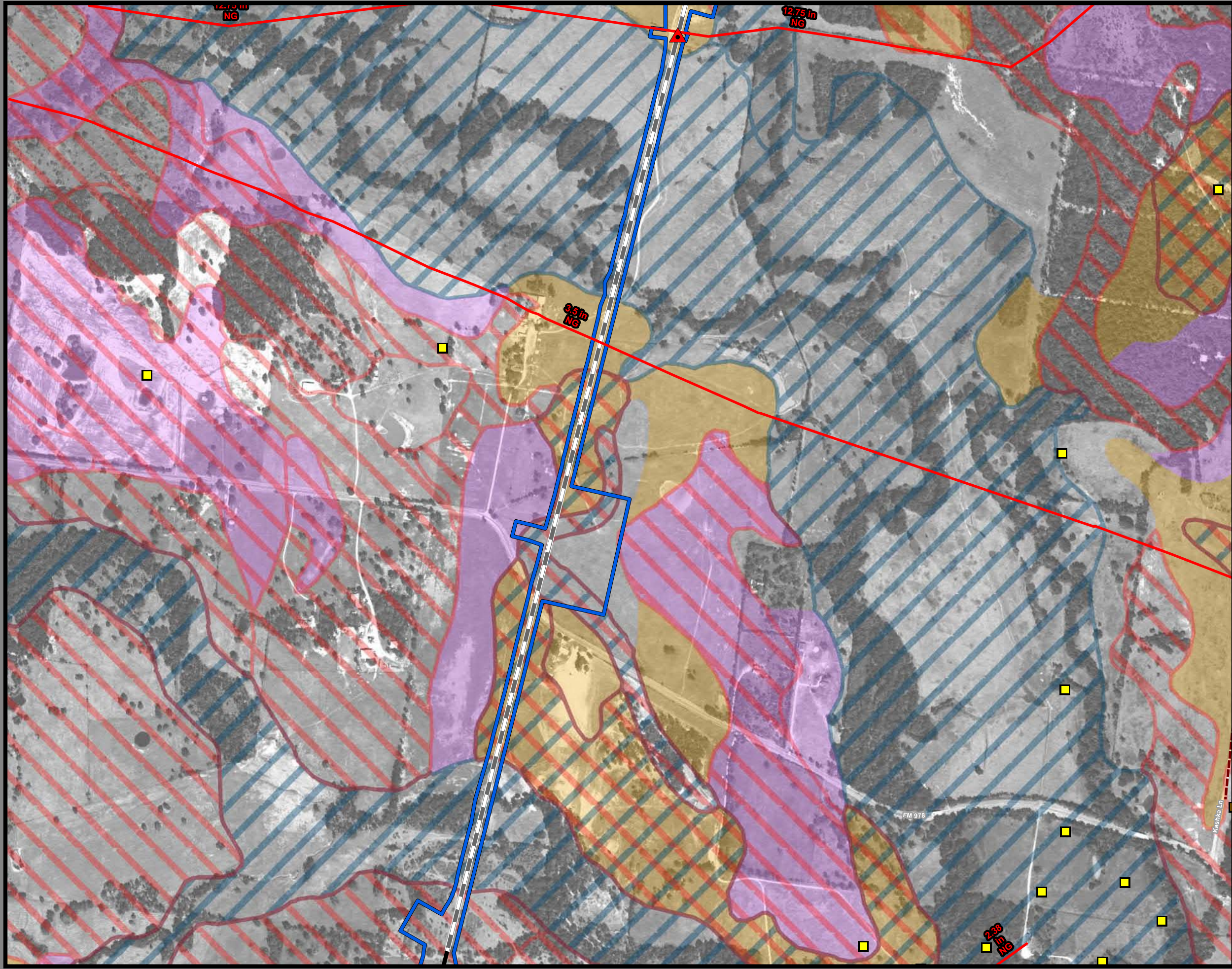
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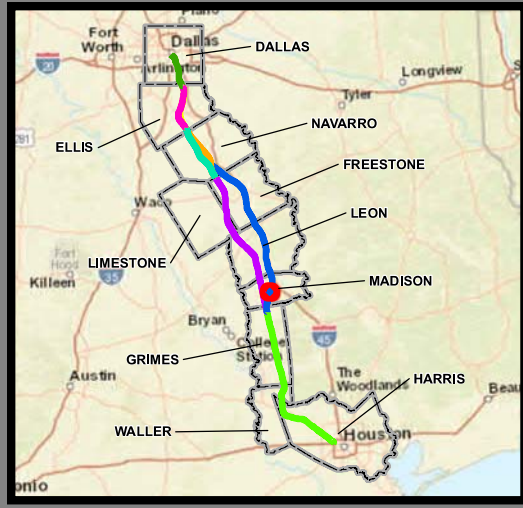
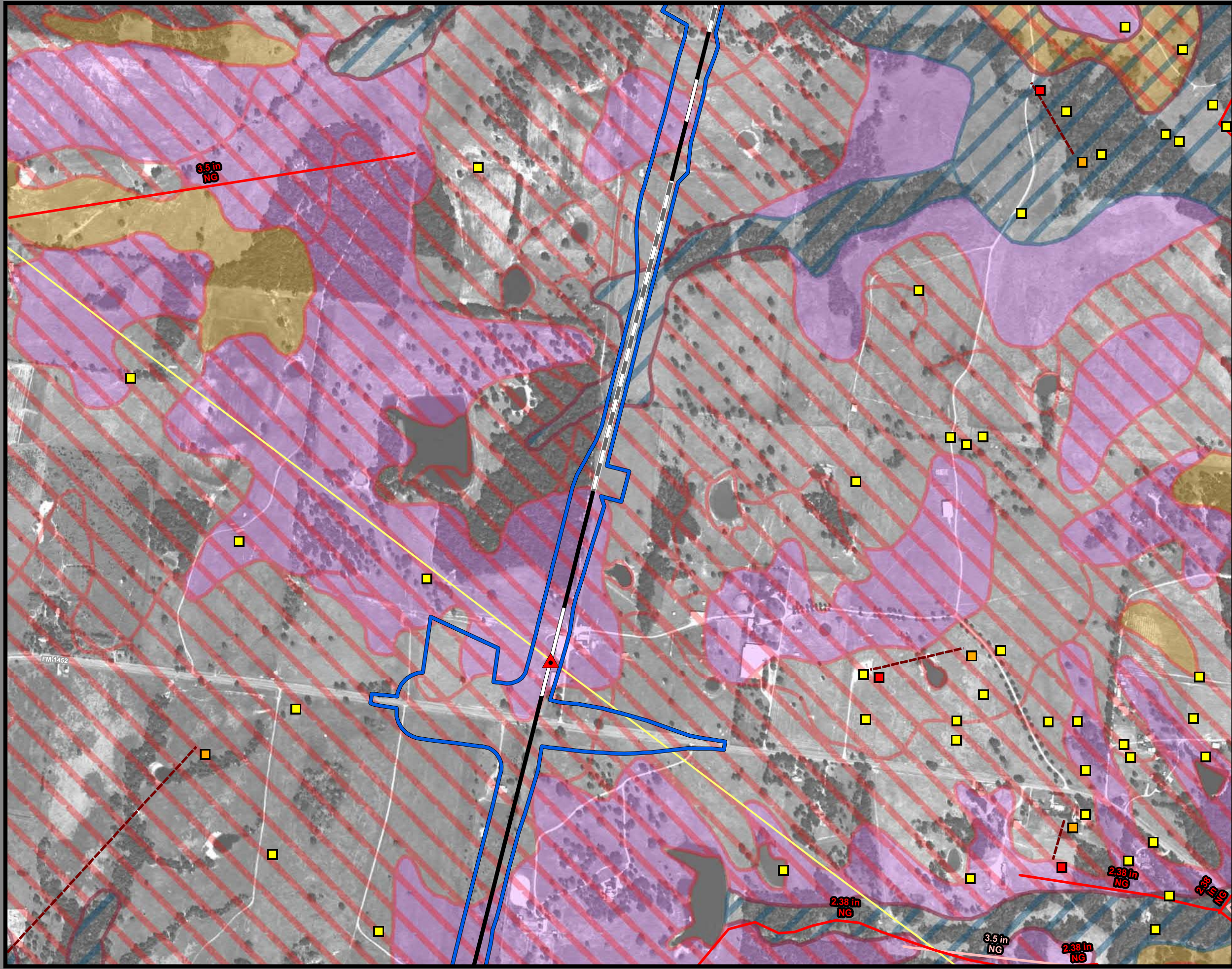
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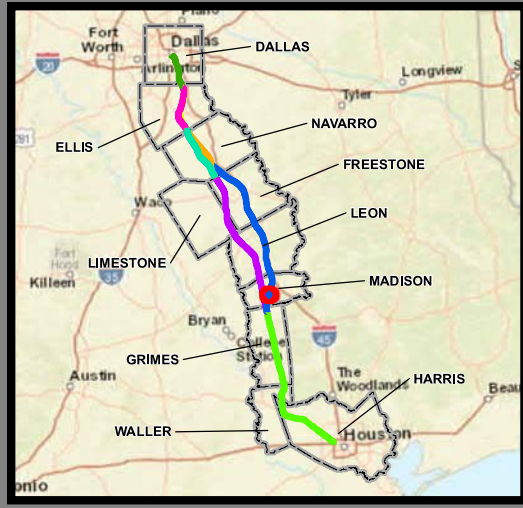
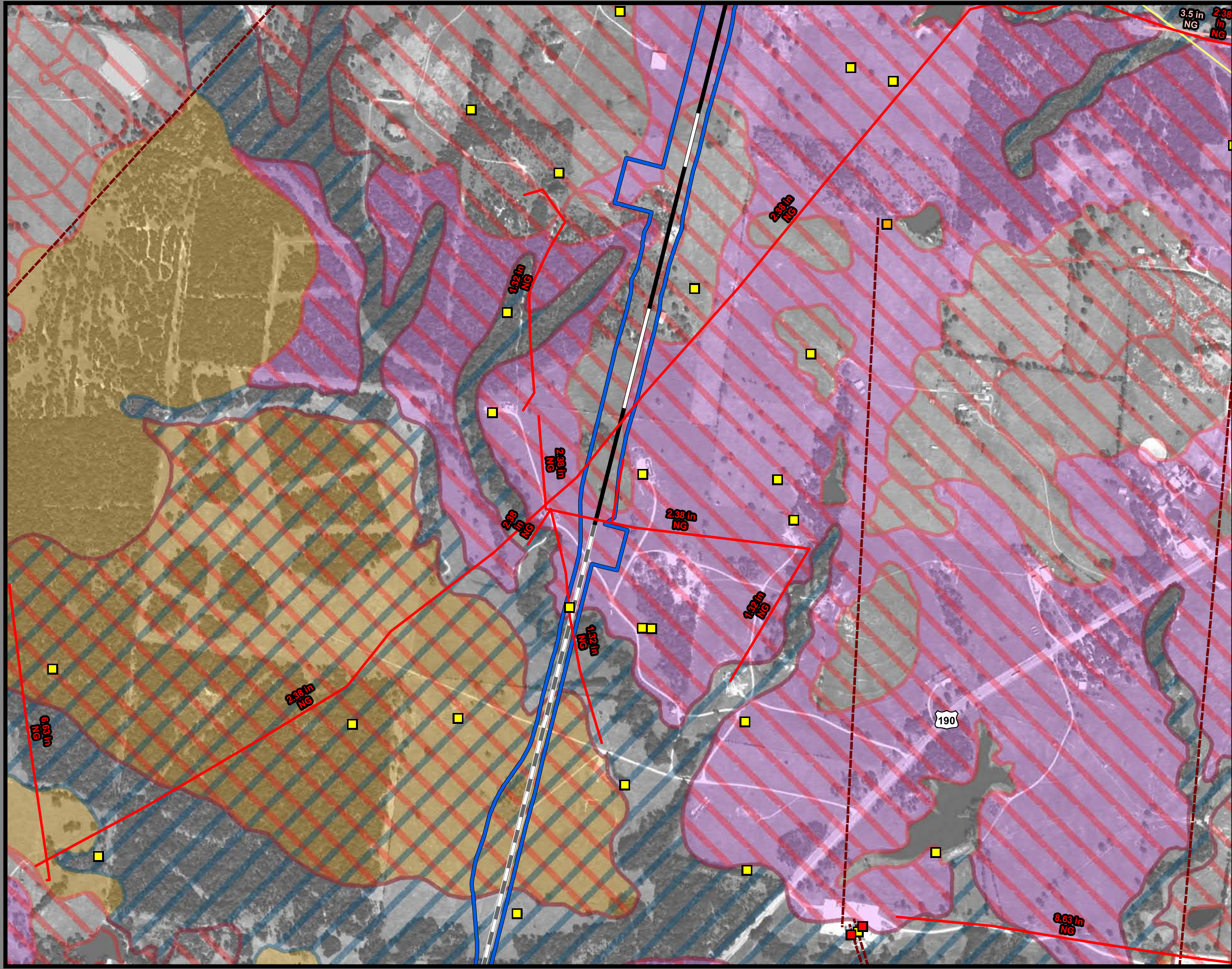
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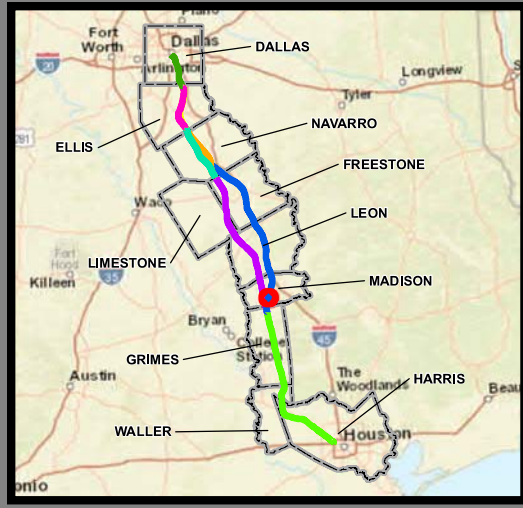
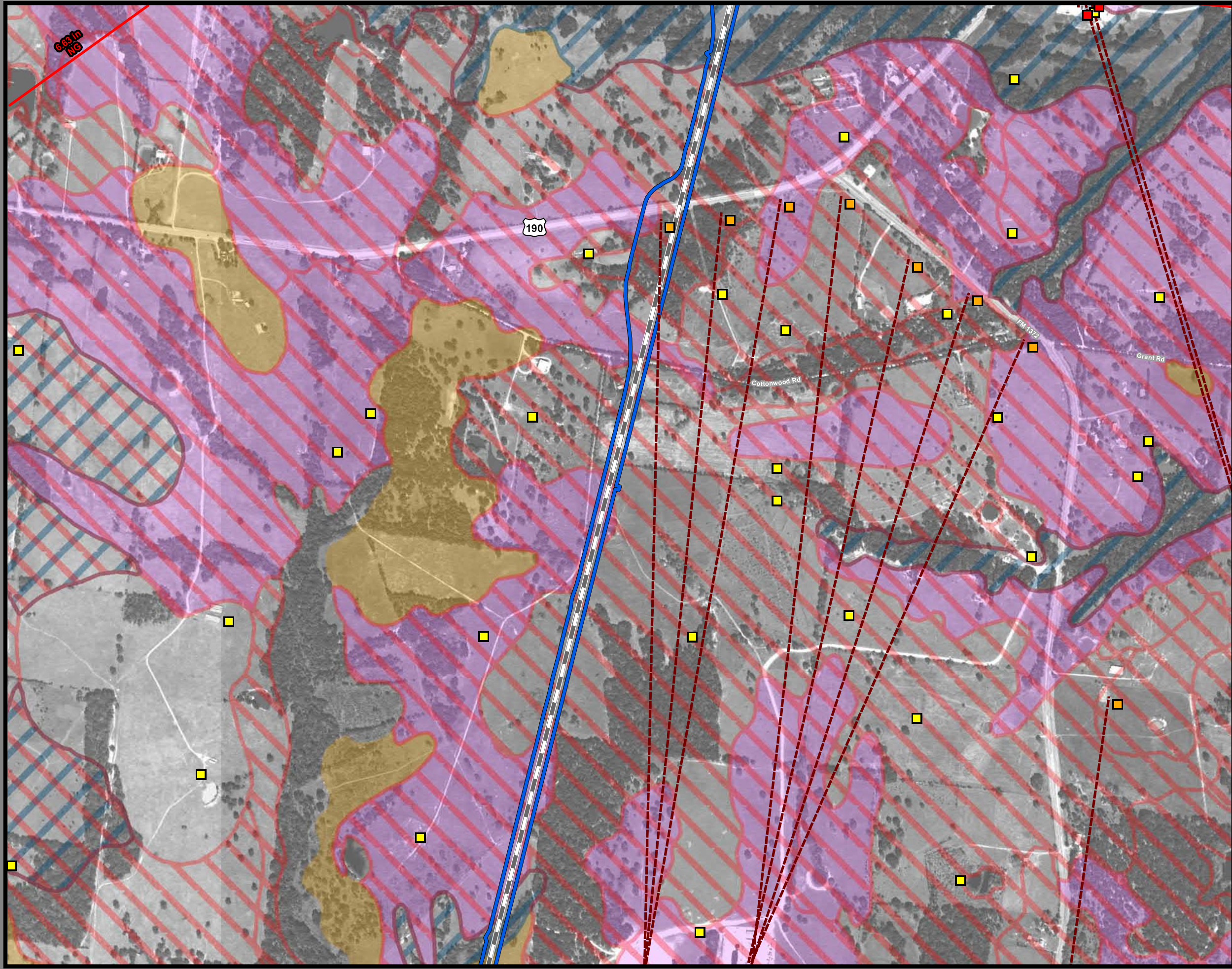
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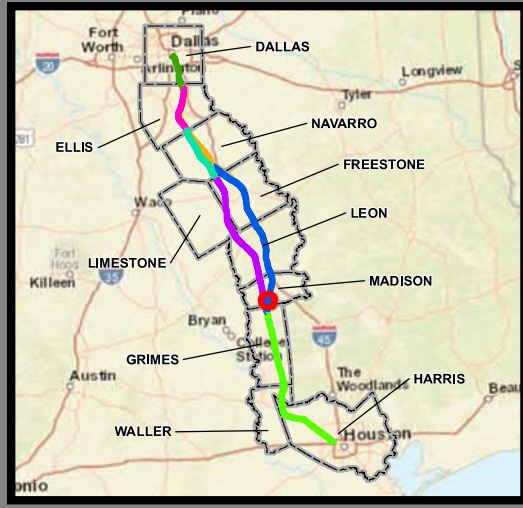
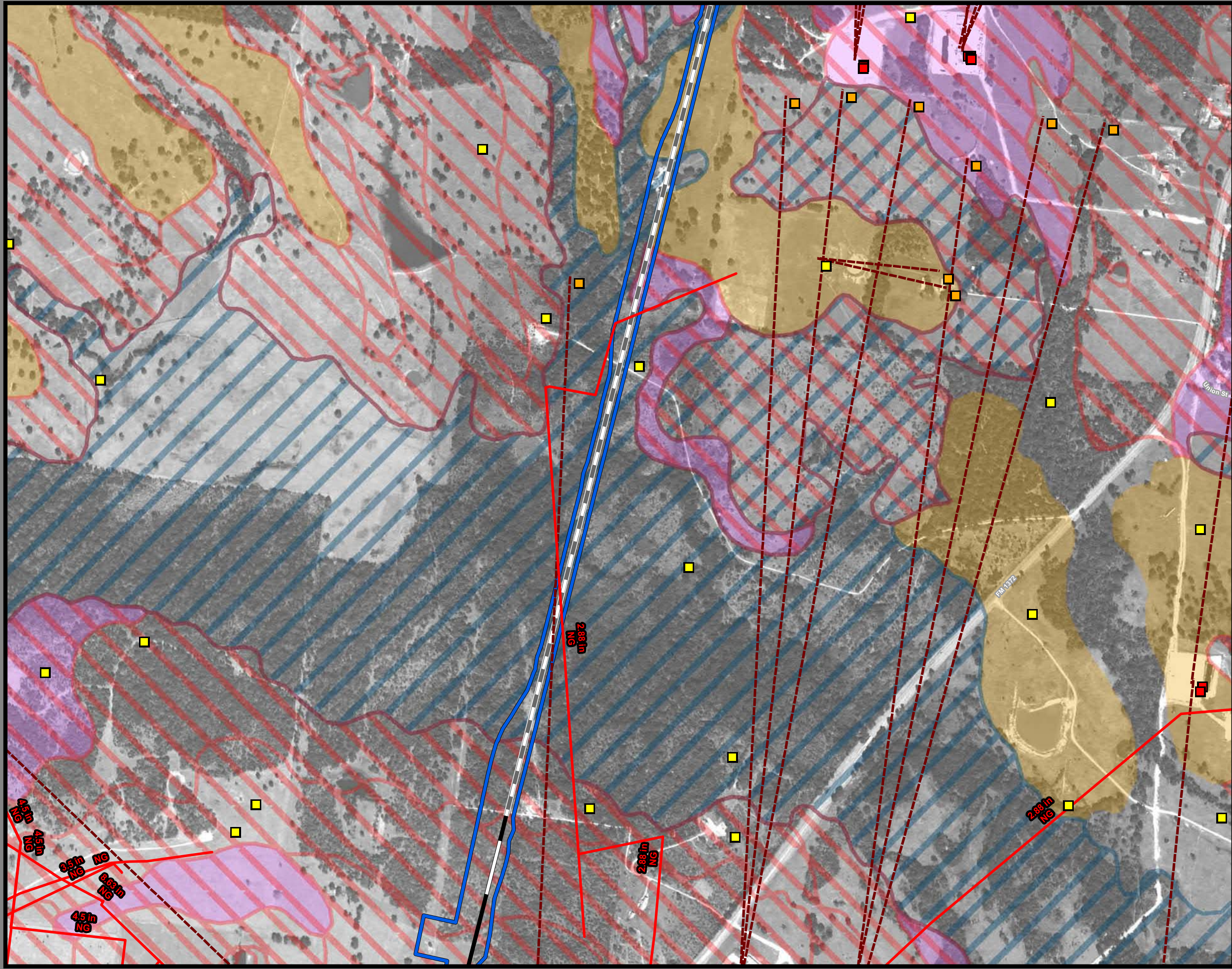
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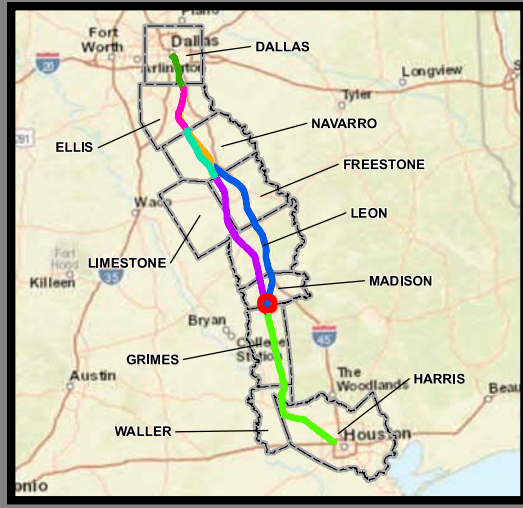
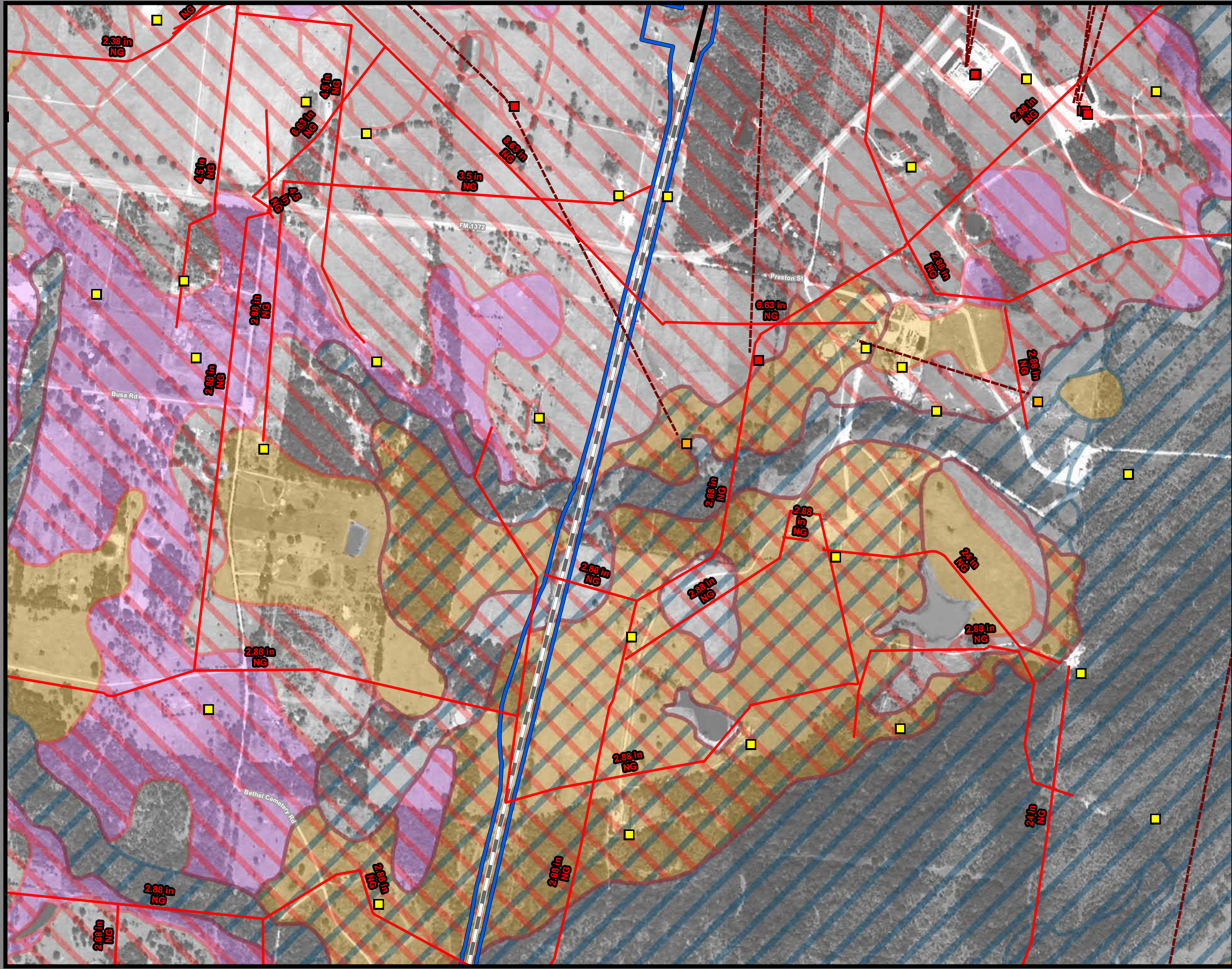
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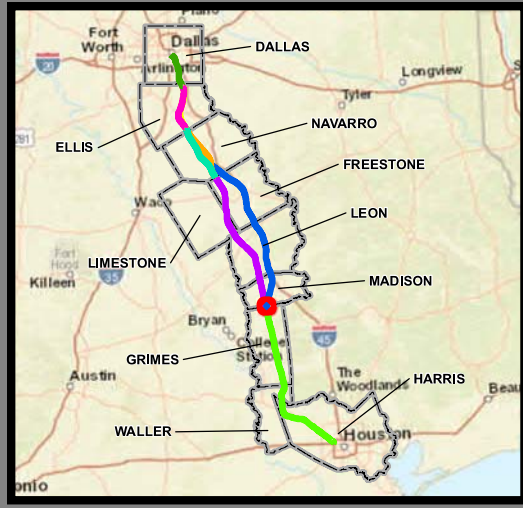
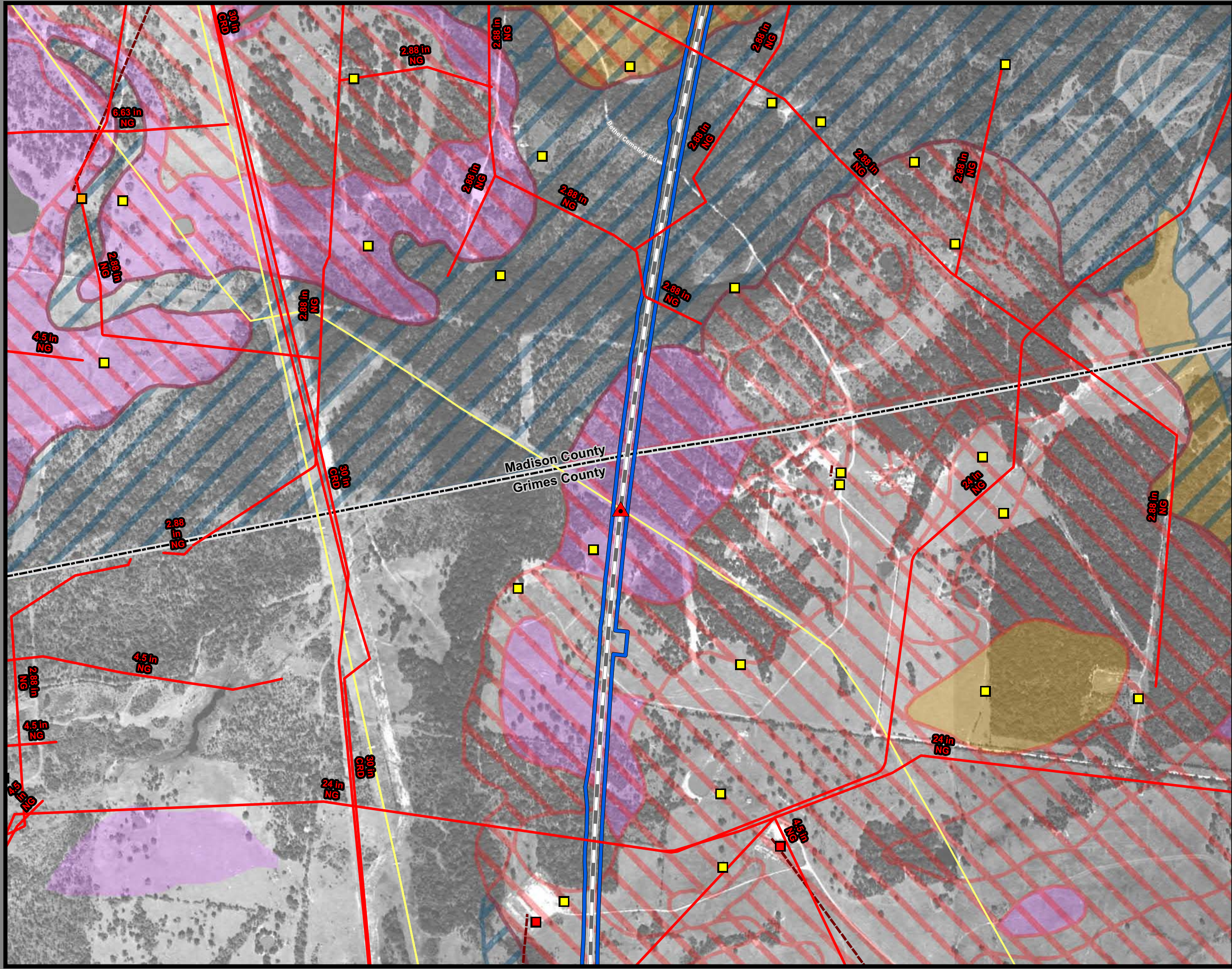
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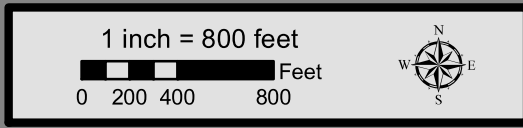
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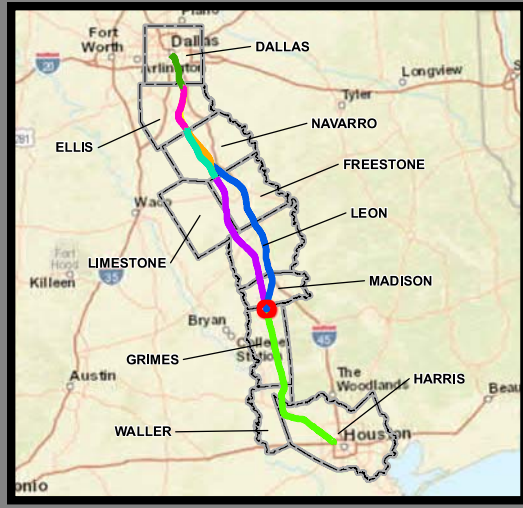
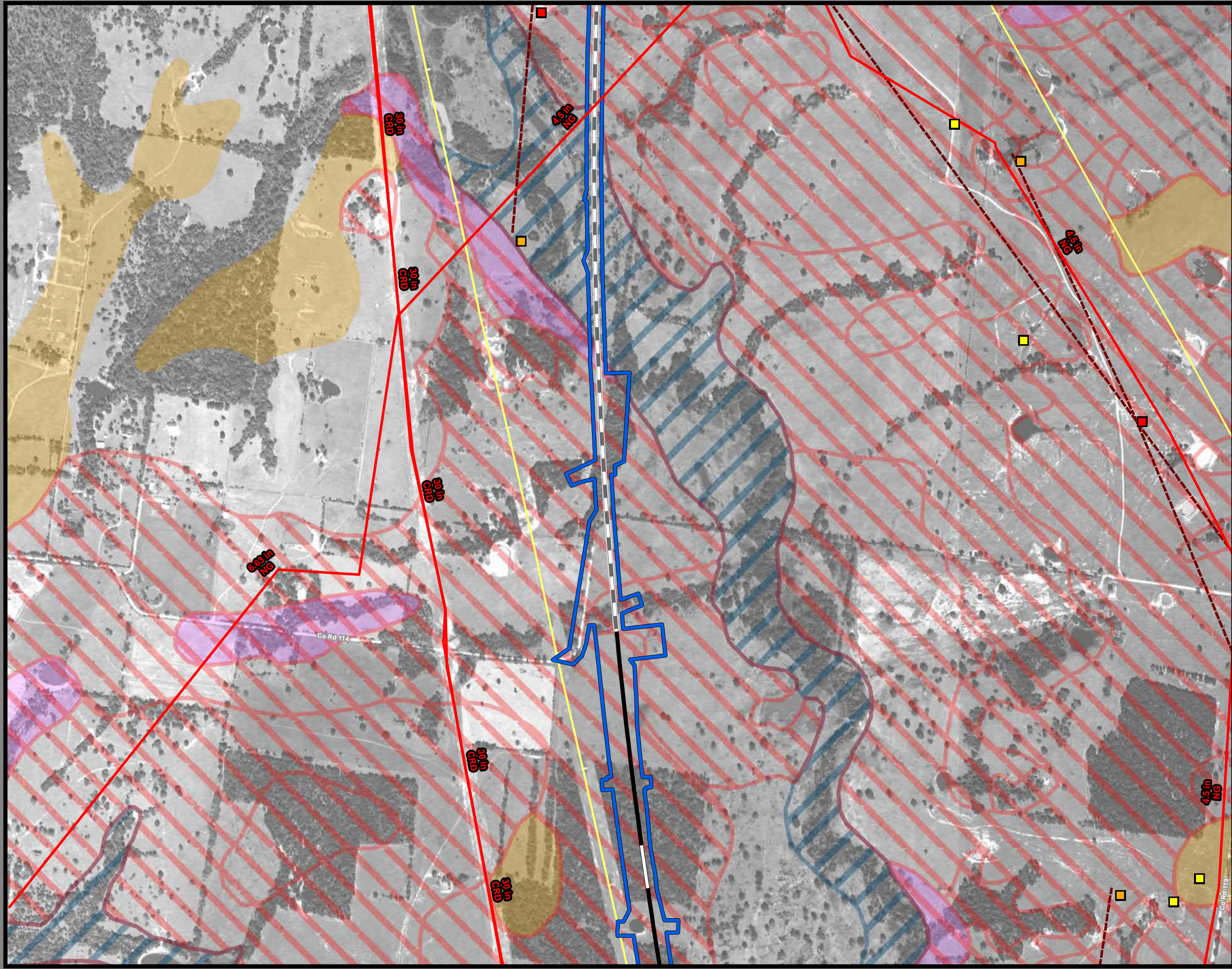
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This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 199.

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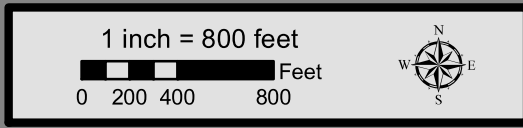
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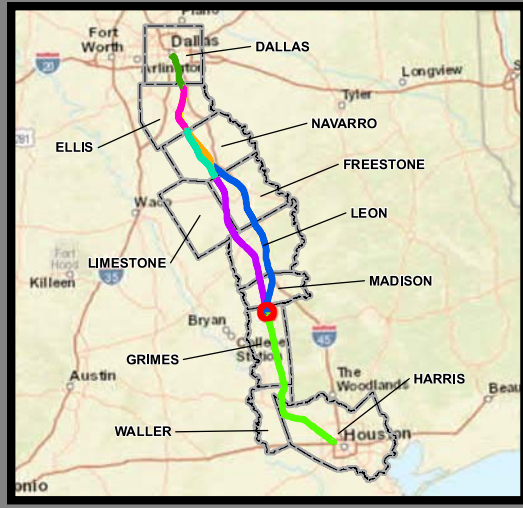
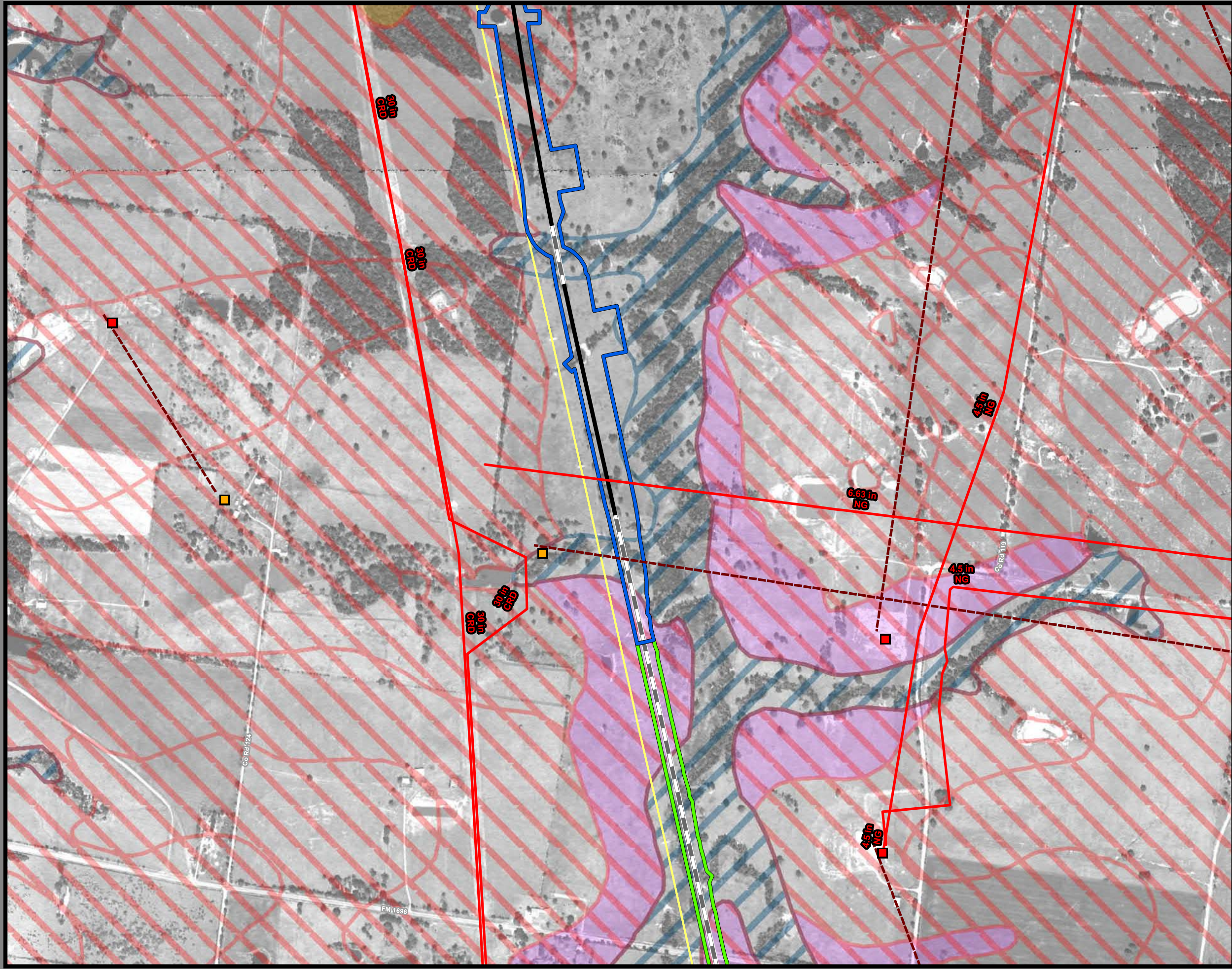
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Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned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

This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 200.

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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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C, 5
Sheet 152 of 257**

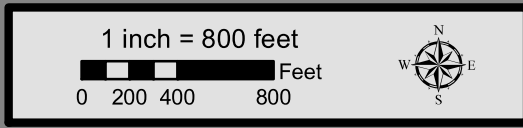
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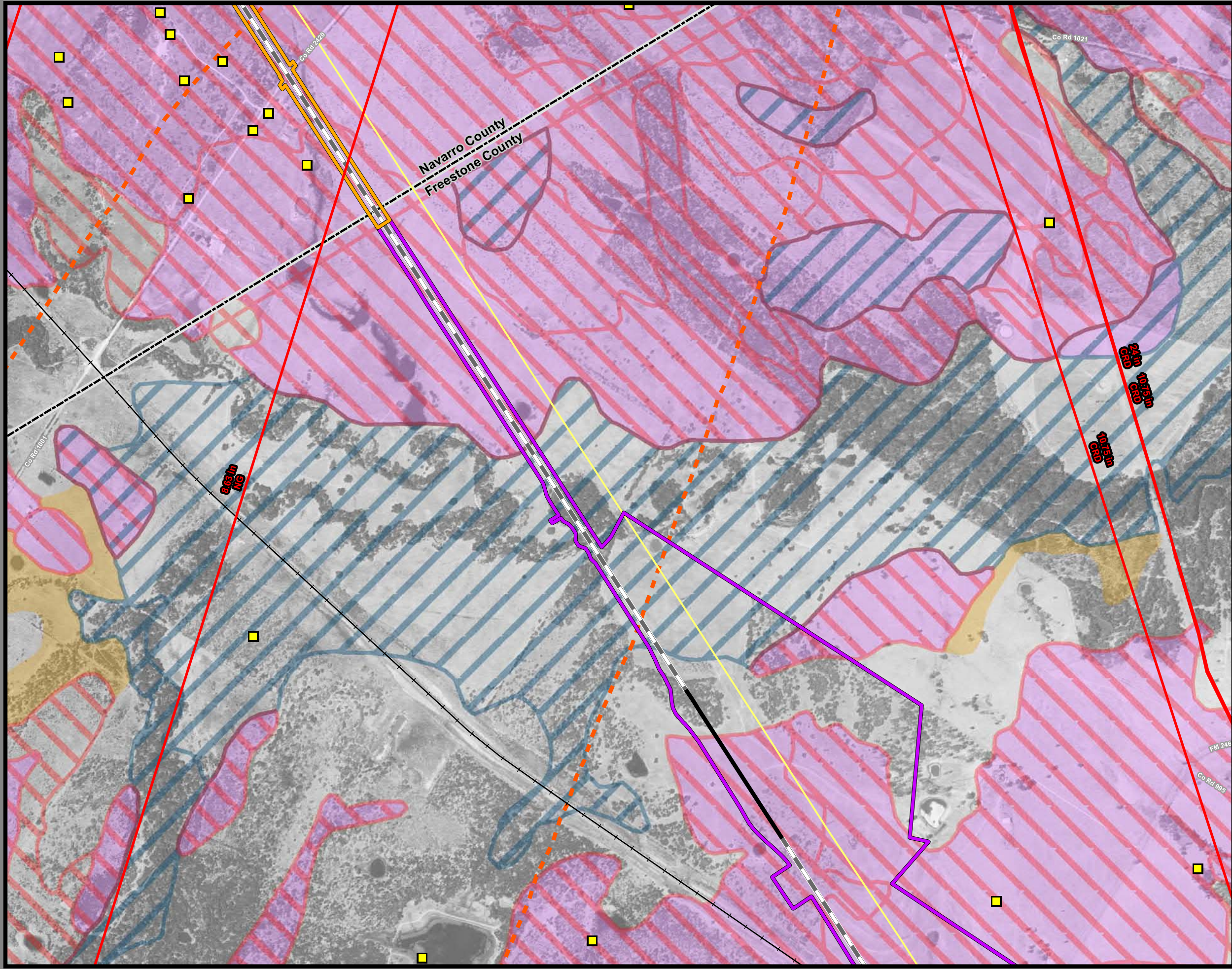
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

This Sheet only depicts Segments 3C & 5; Segment 4 is also located in this same area and can be referenced on Sheet 201.

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 3B, 4
Sheet 153 of 257**

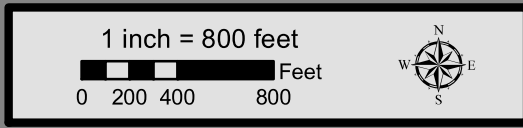
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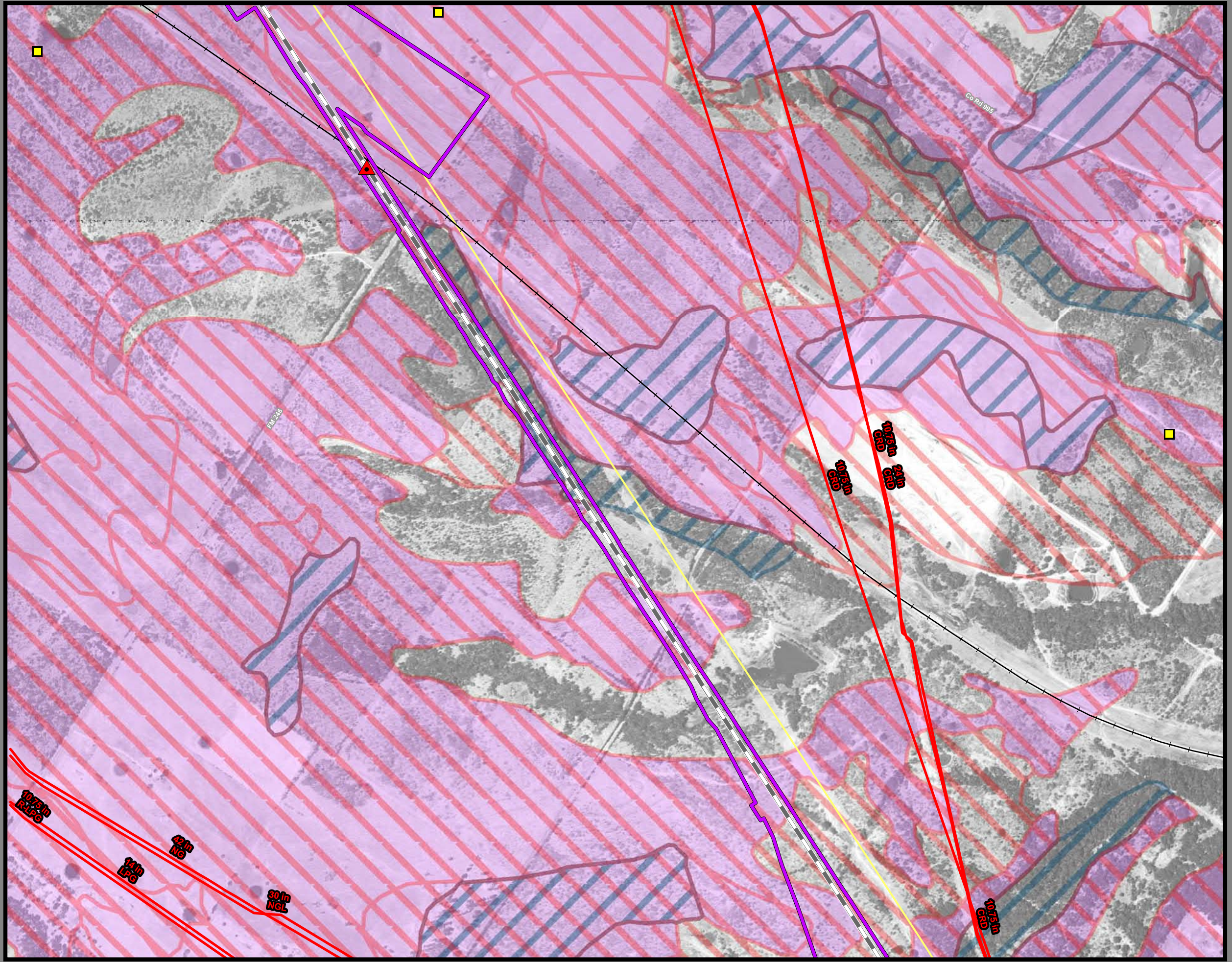
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

This Sheet only depicts Segments 3B & 4; Segment 3A is also located in this same area and can be referenced on Sheet 61.

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





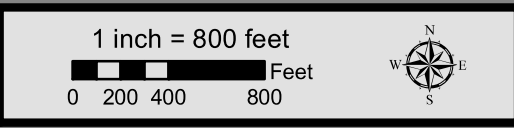
Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
 Segment 4
Sheet 154 of 257

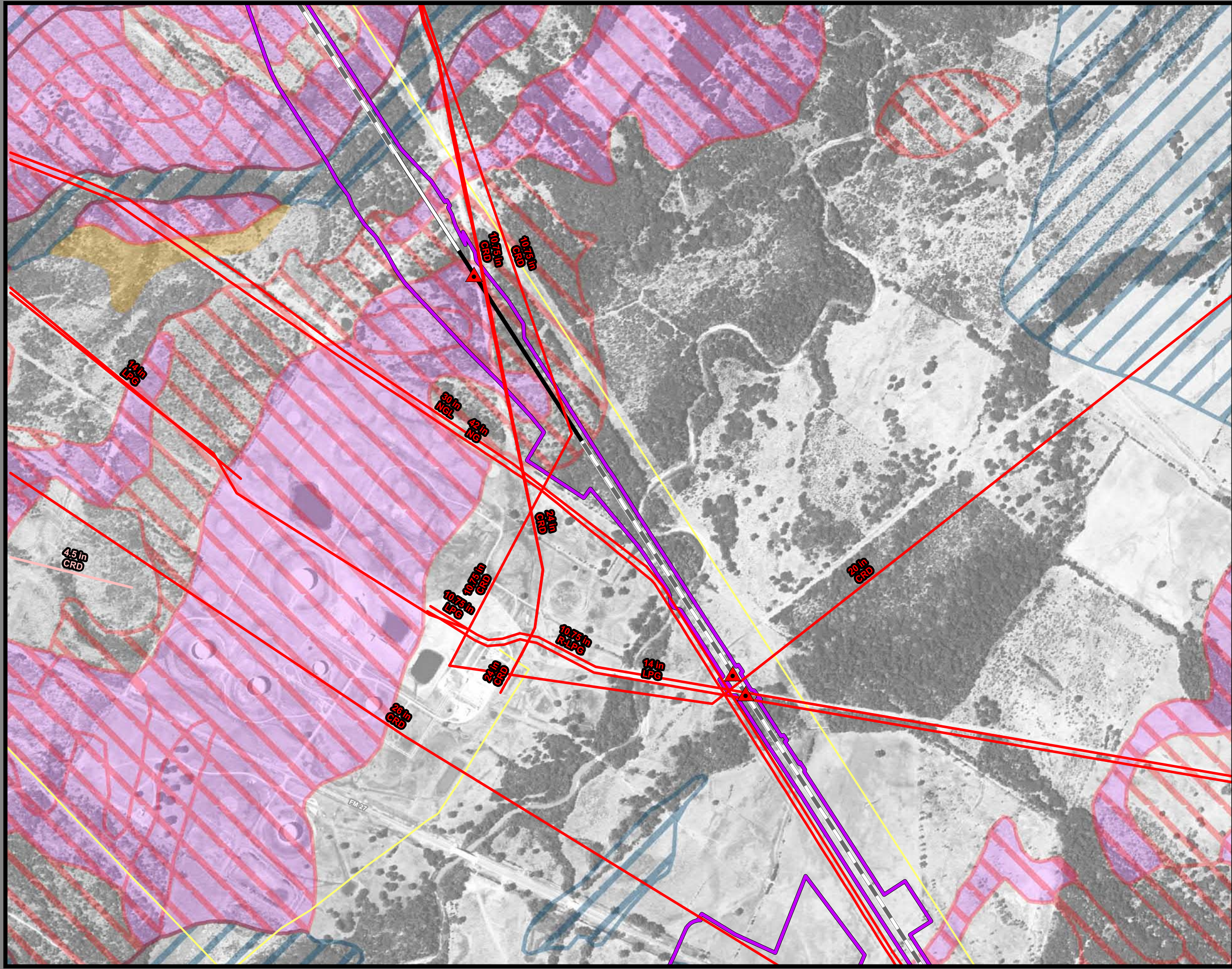
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<p>Limits of Disturbance</p> <ul style="list-style-type: none"> Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 <p>Track Configuration</p> <ul style="list-style-type: none"> Viaduct Embankment Cut <p>County Boundary</p> <ul style="list-style-type: none"> County Boundary Railroad Faults 	<p>Utilities</p> <ul style="list-style-type: none"> Mine Utility Crossing Electric Transmission Line <p>Oil/Gas Wells</p> <ul style="list-style-type: none"> Vertical Directional: Surface Directional: Bottom Directional Well Lines <p>Oil/Gas Pipelines</p> <ul style="list-style-type: none"> Active Abandoned <p>Soils</p> <ul style="list-style-type: none"> Highly Erodible 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; 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





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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 155 of 257**

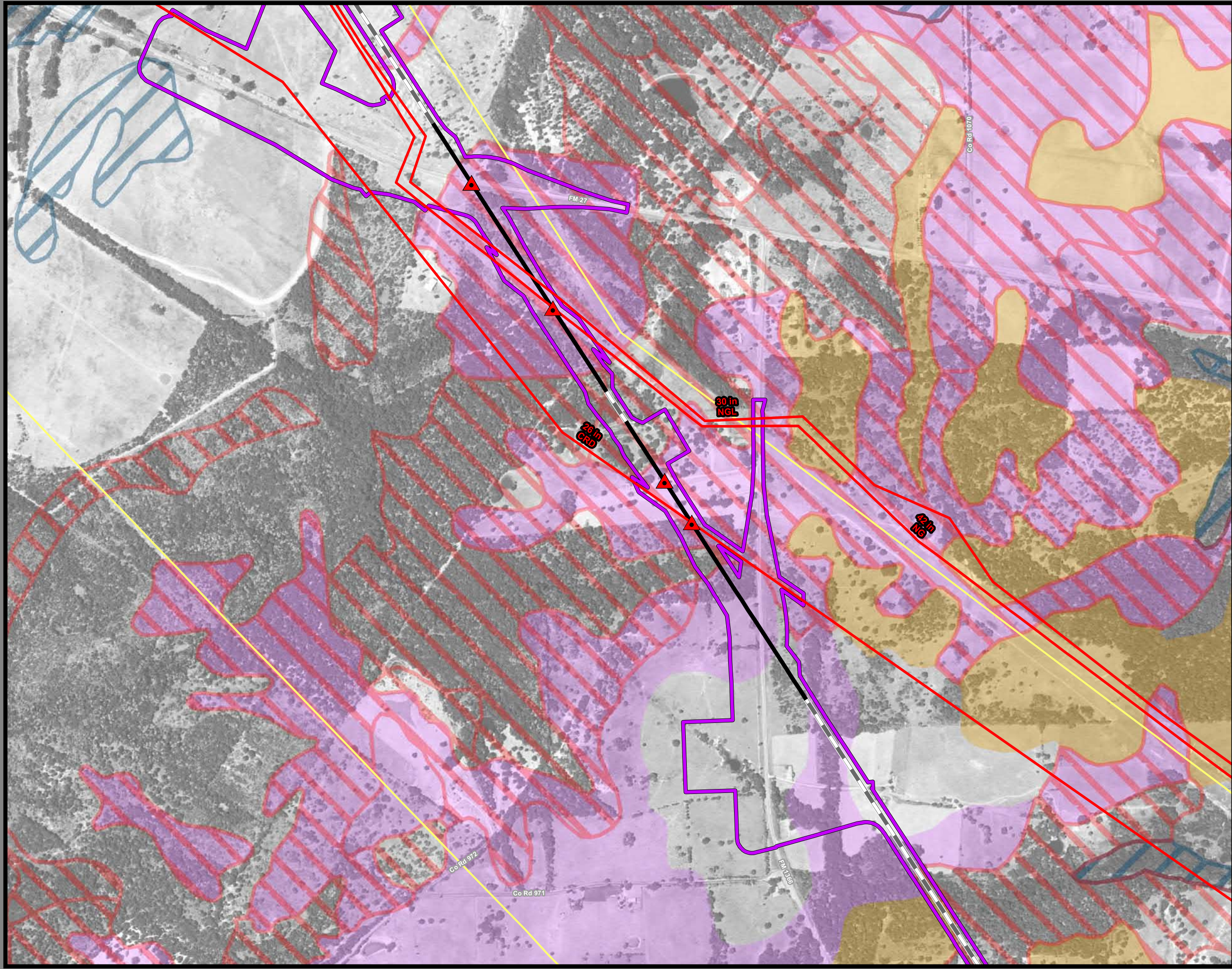
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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; 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





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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 156 of 257**

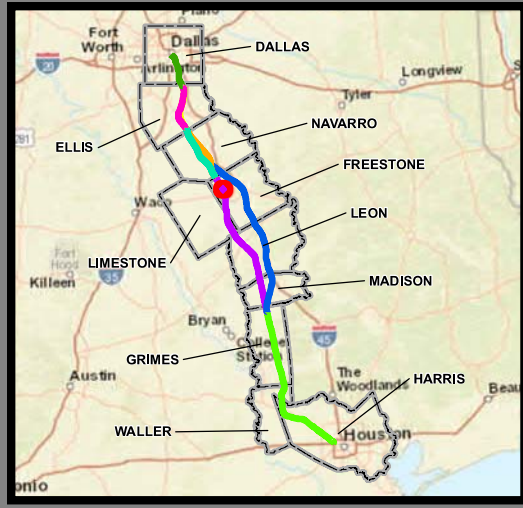
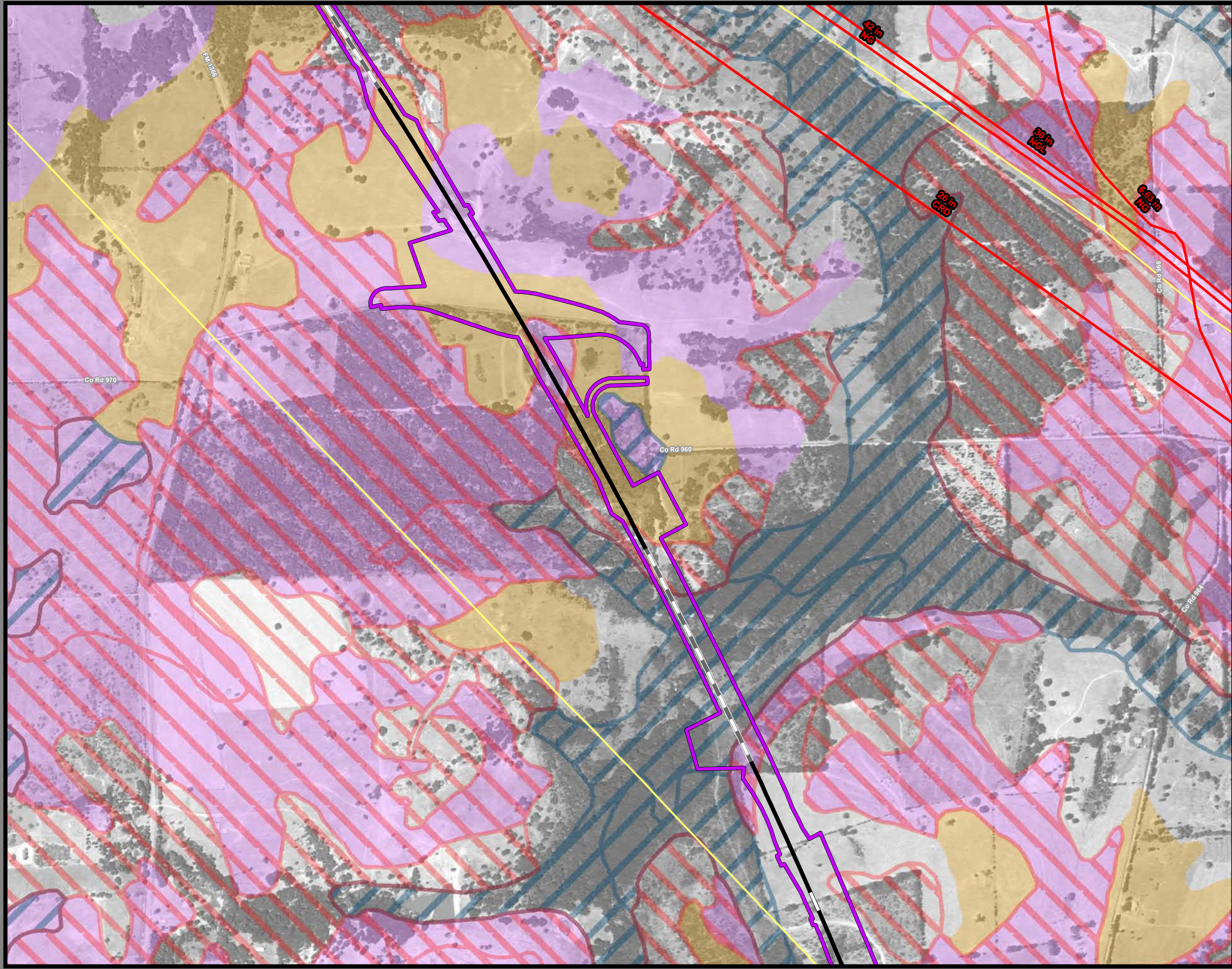
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
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; 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
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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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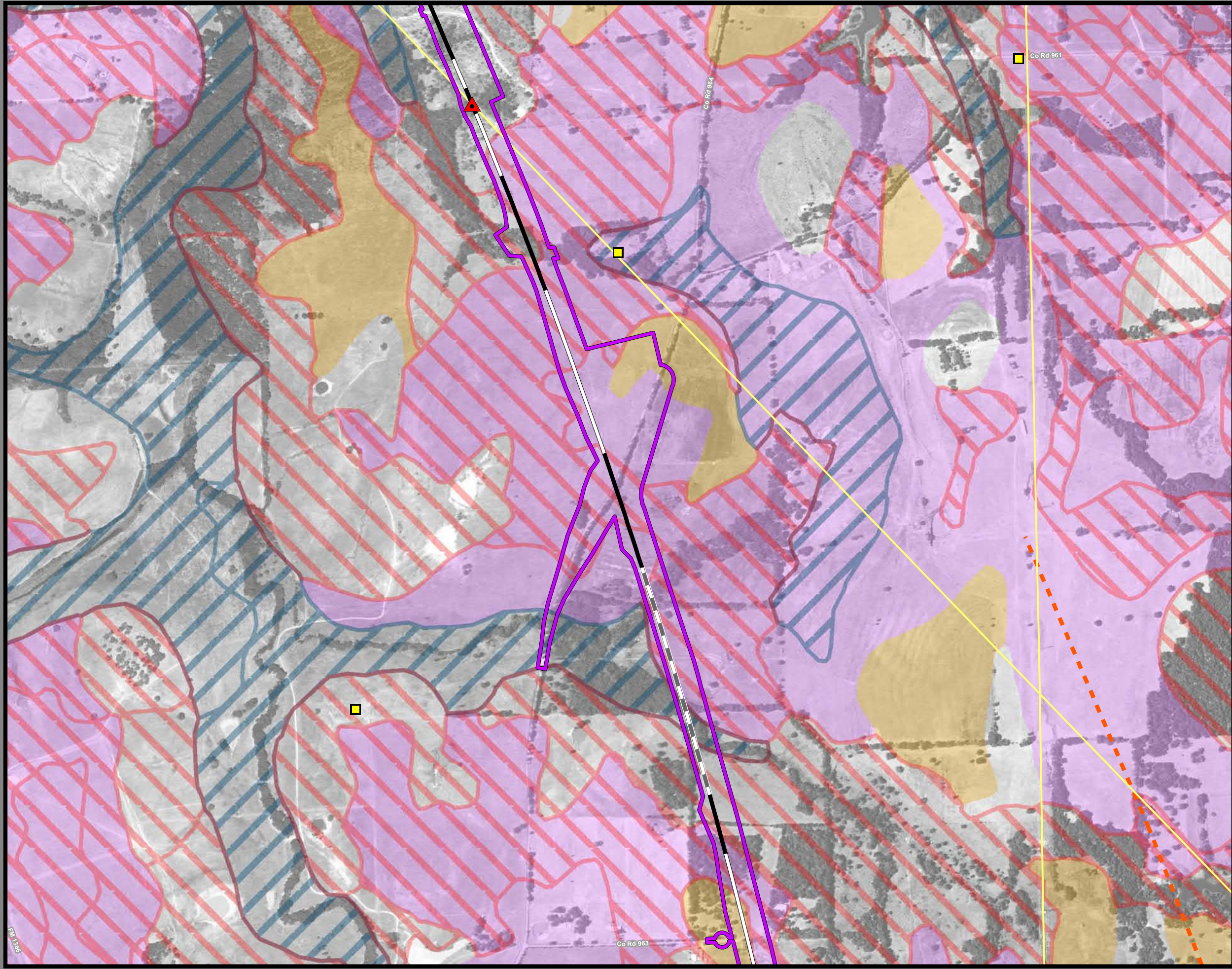
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
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; 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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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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Legend

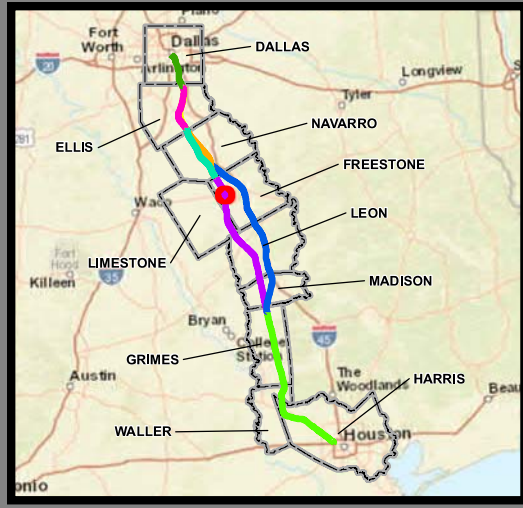
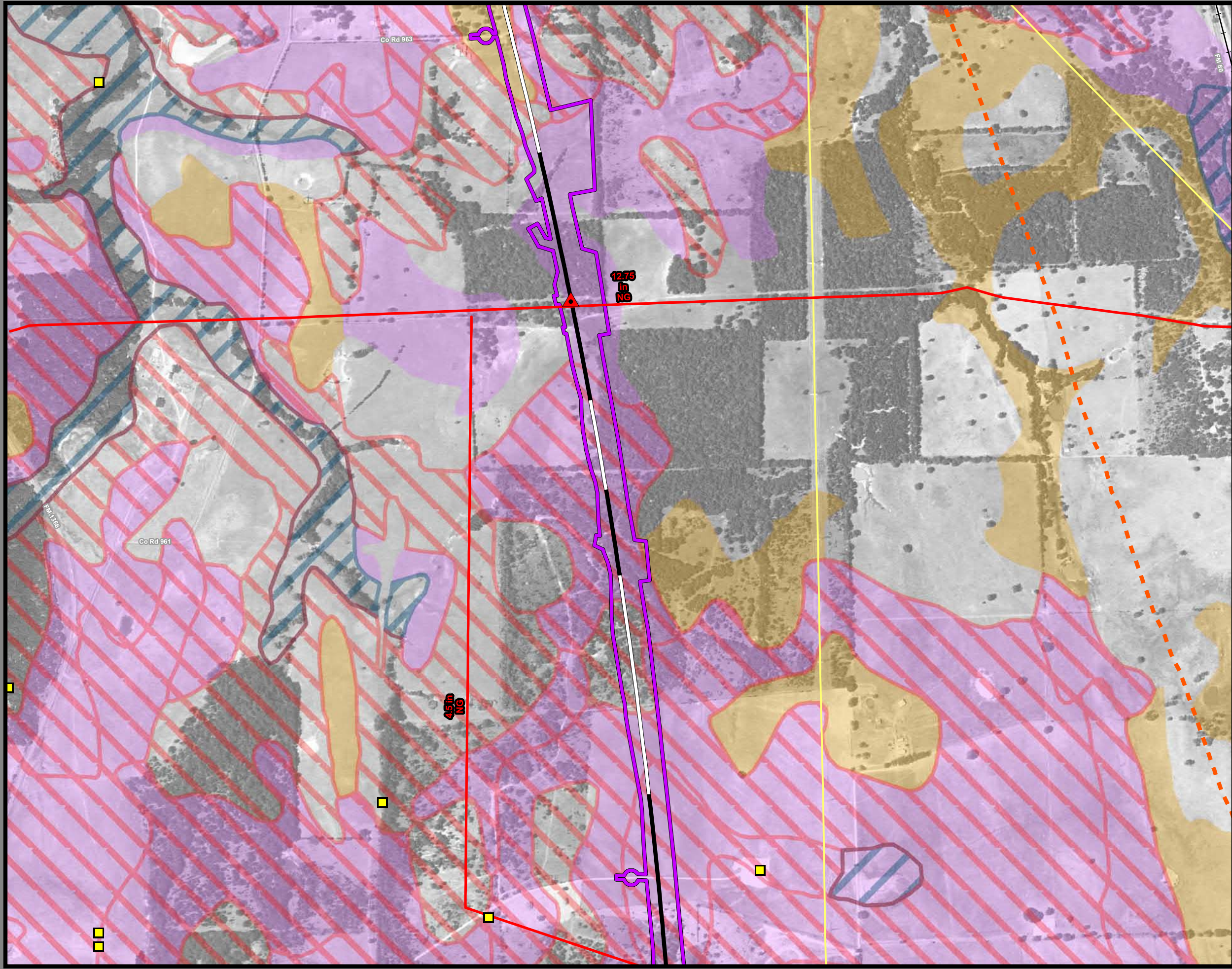
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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



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Dallas to Houston
High-Speed Rail Project
 Mineral and Utility Resources
 Segment 4
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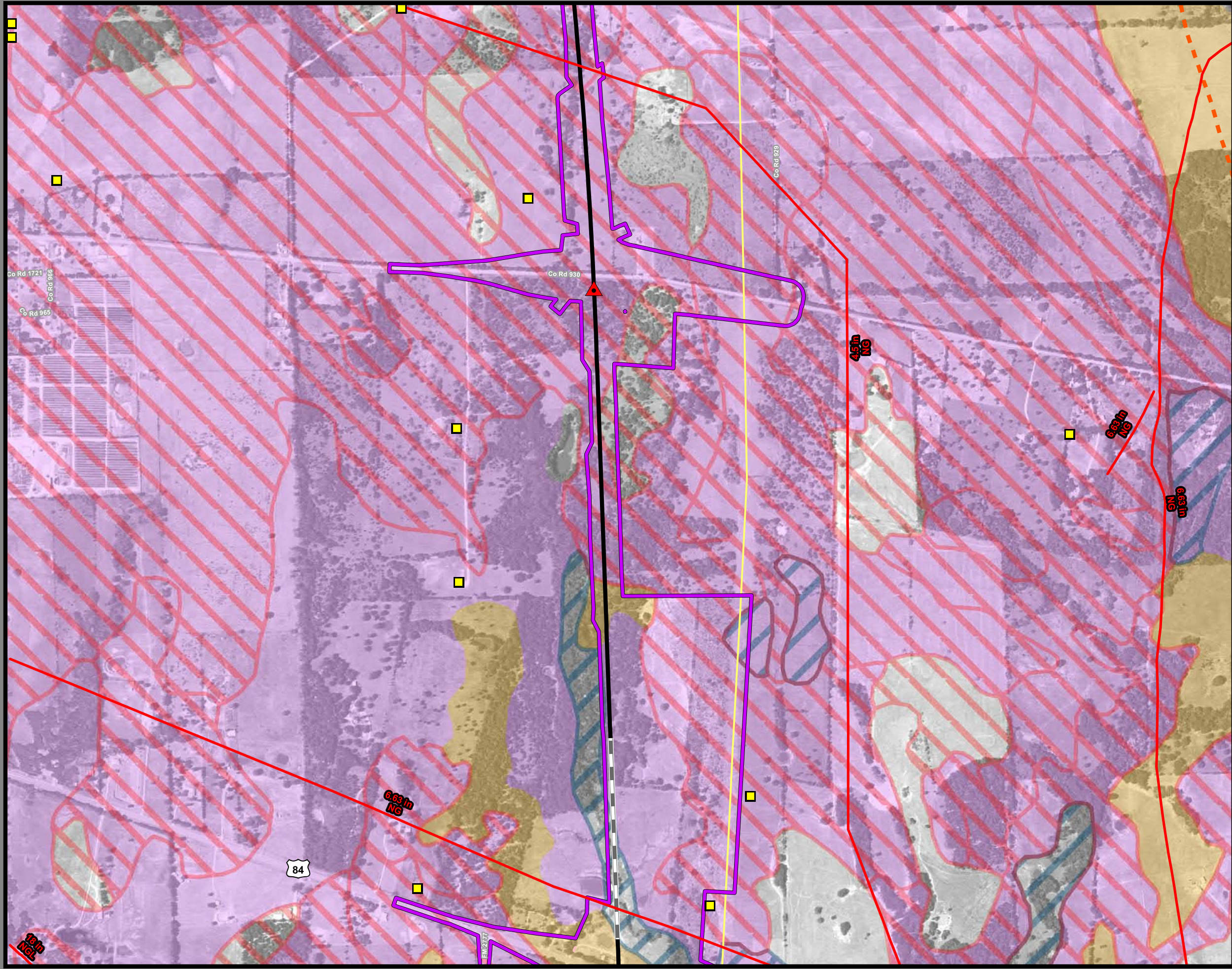
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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; 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
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**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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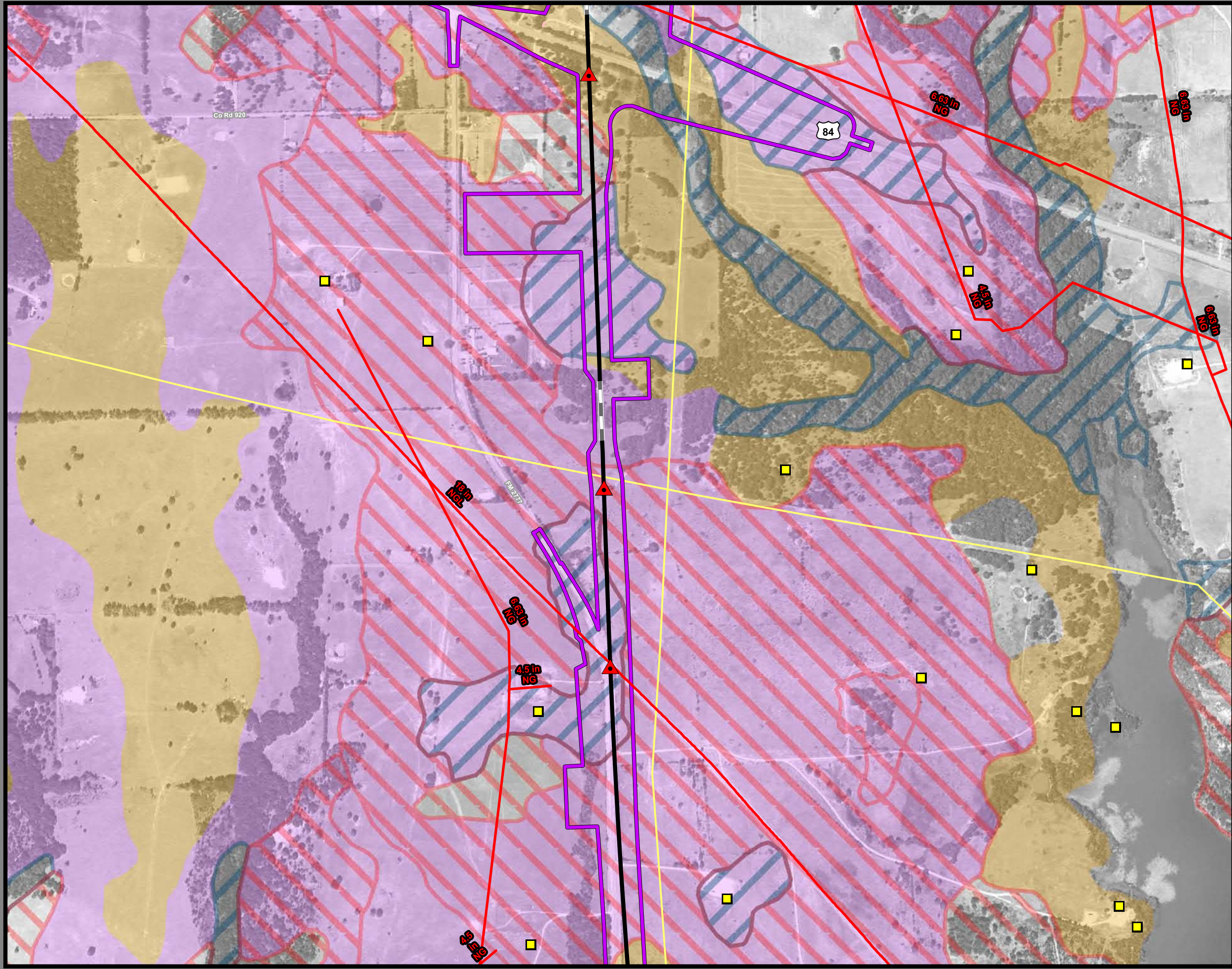
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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; 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
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**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 161 of 257**

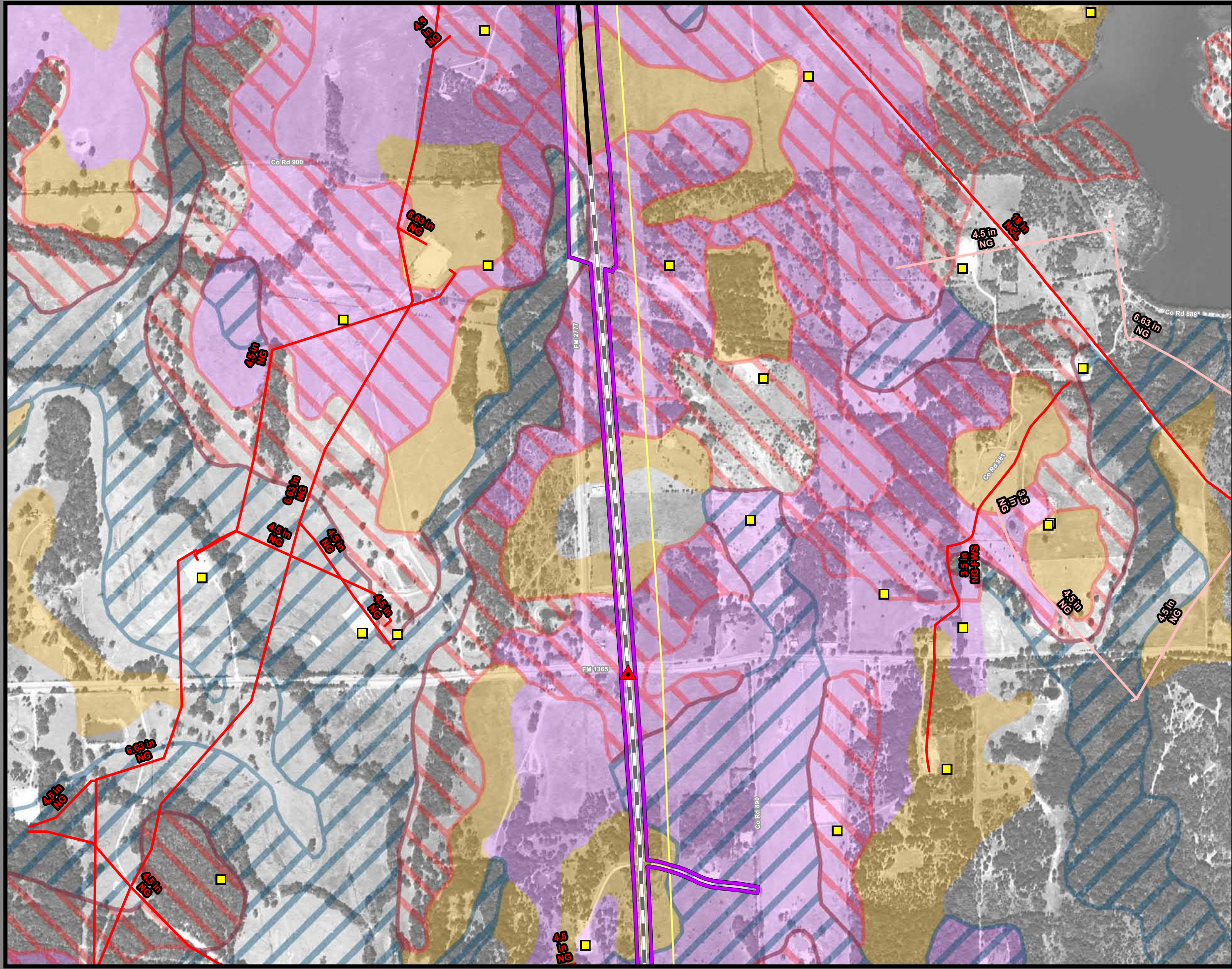
Legend

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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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 162 of 257**

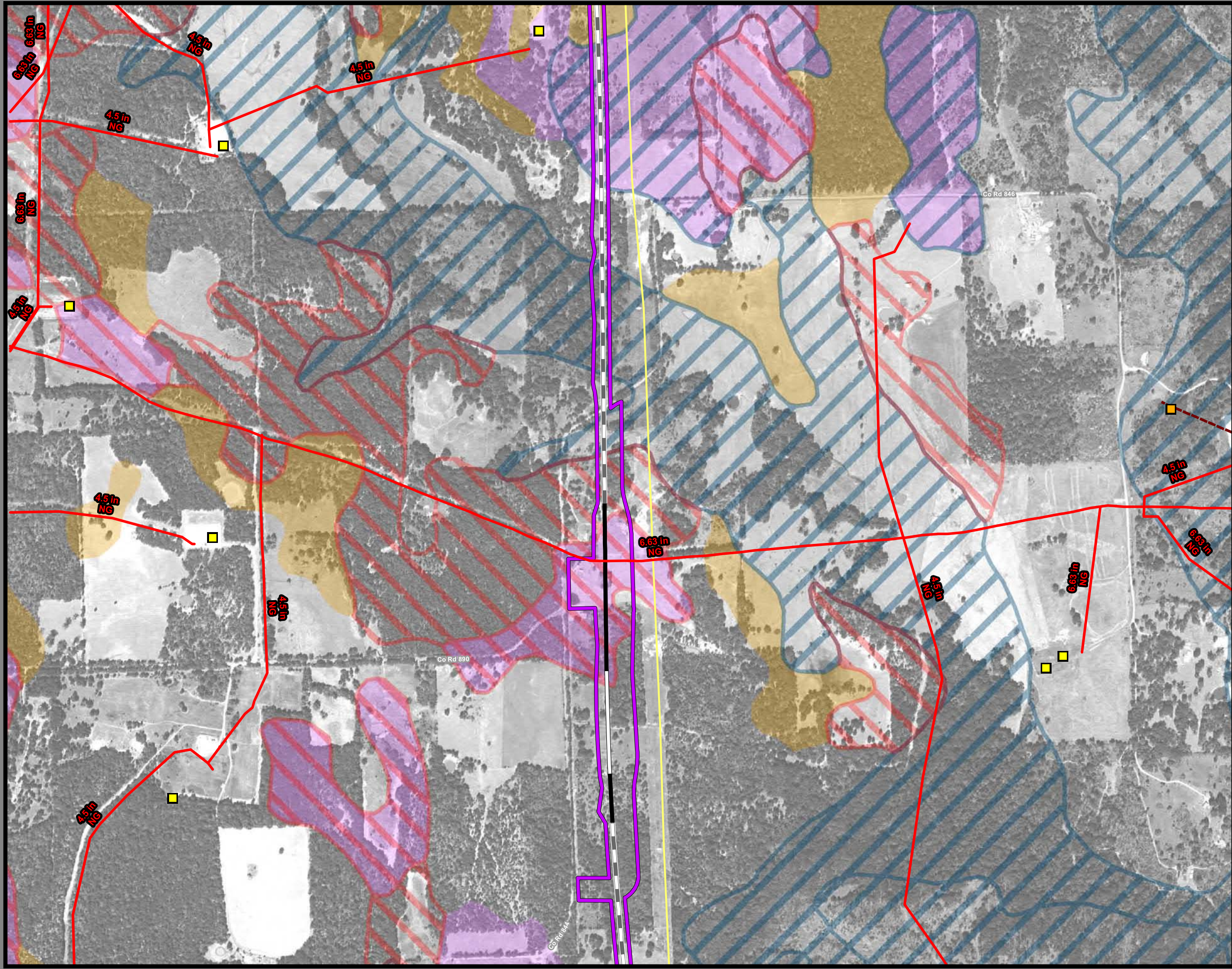
Legend

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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Segment 4
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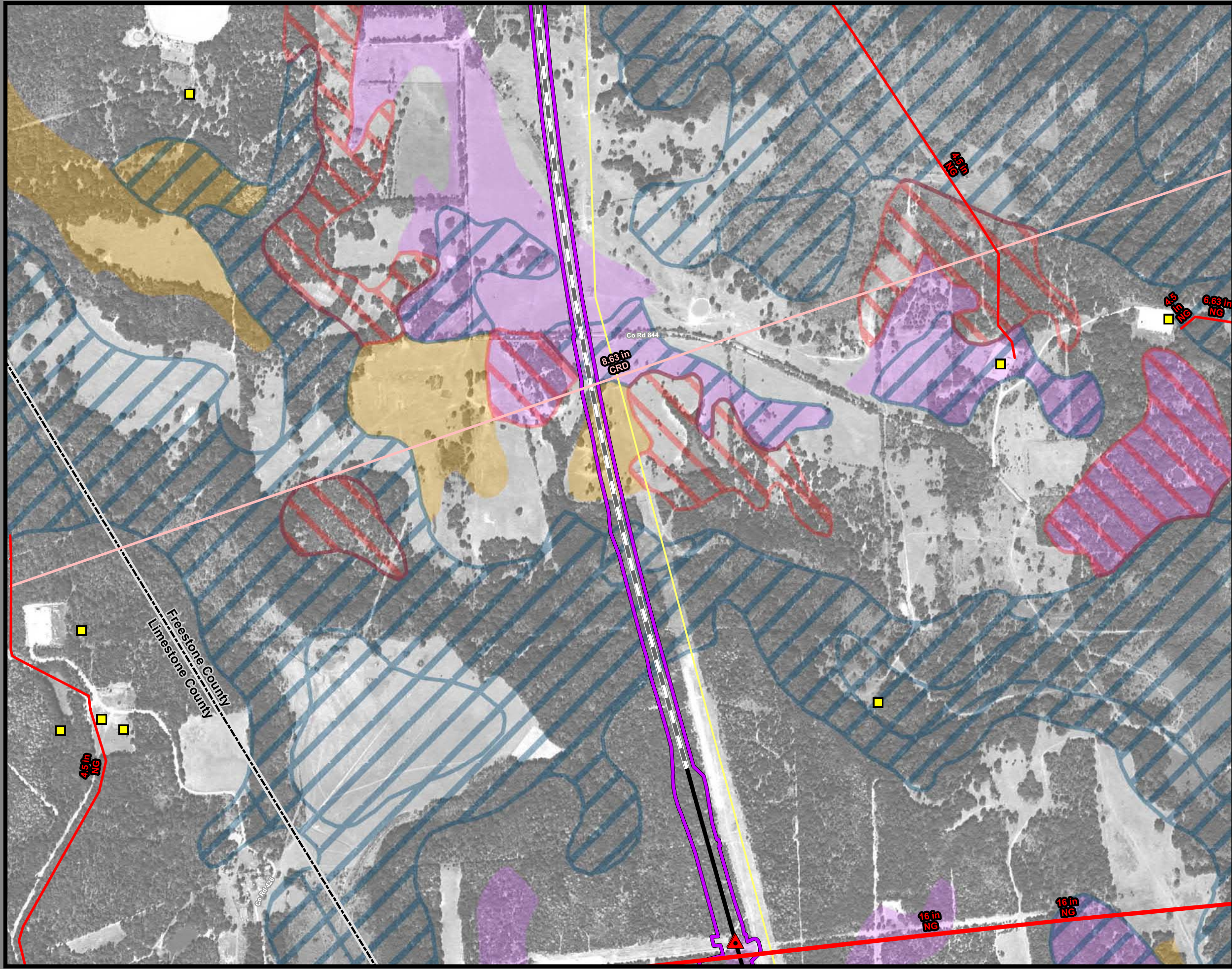
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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; 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 4
Sheet 164 of 257**

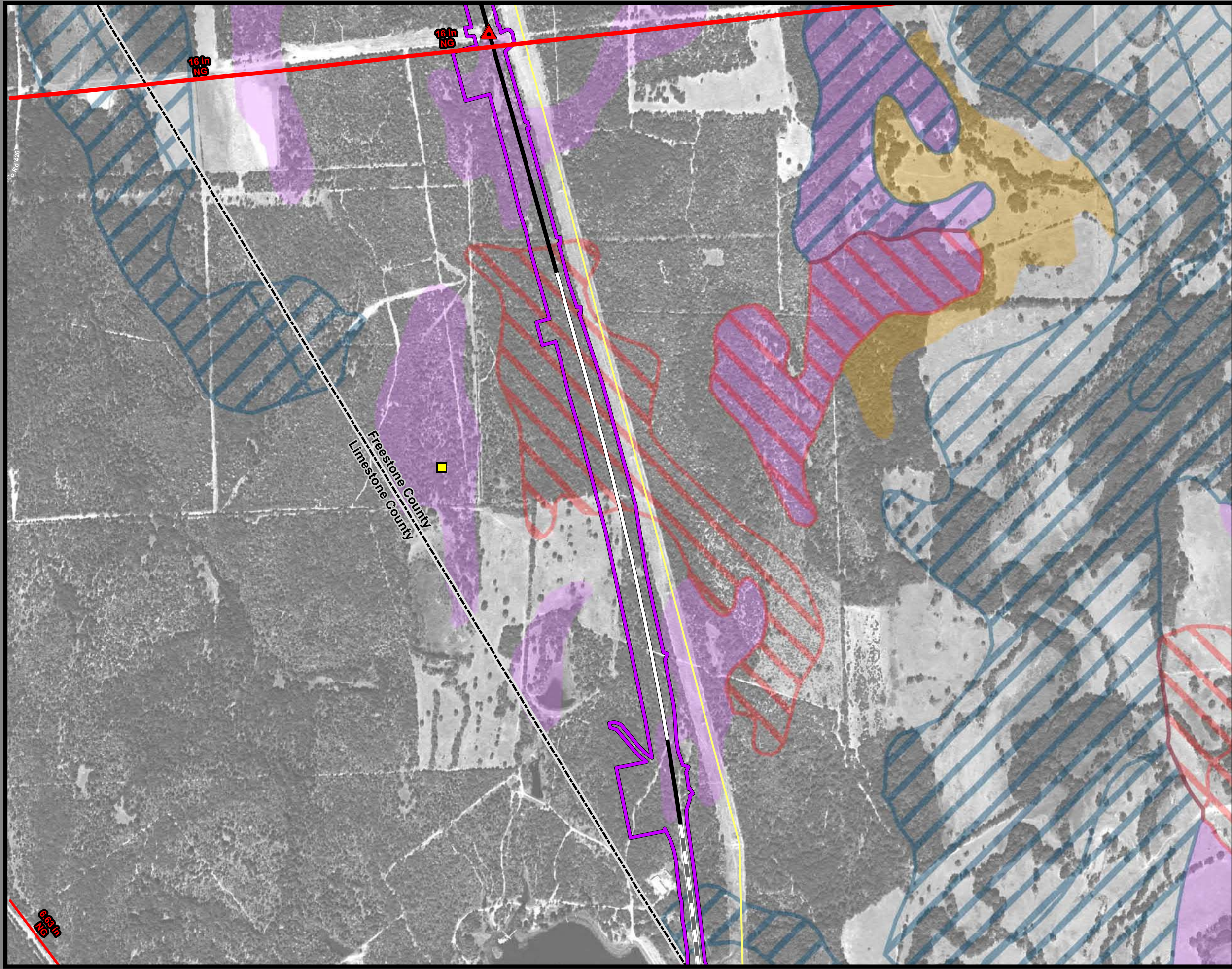
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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; 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





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High-Speed Rail Project
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Segment 4
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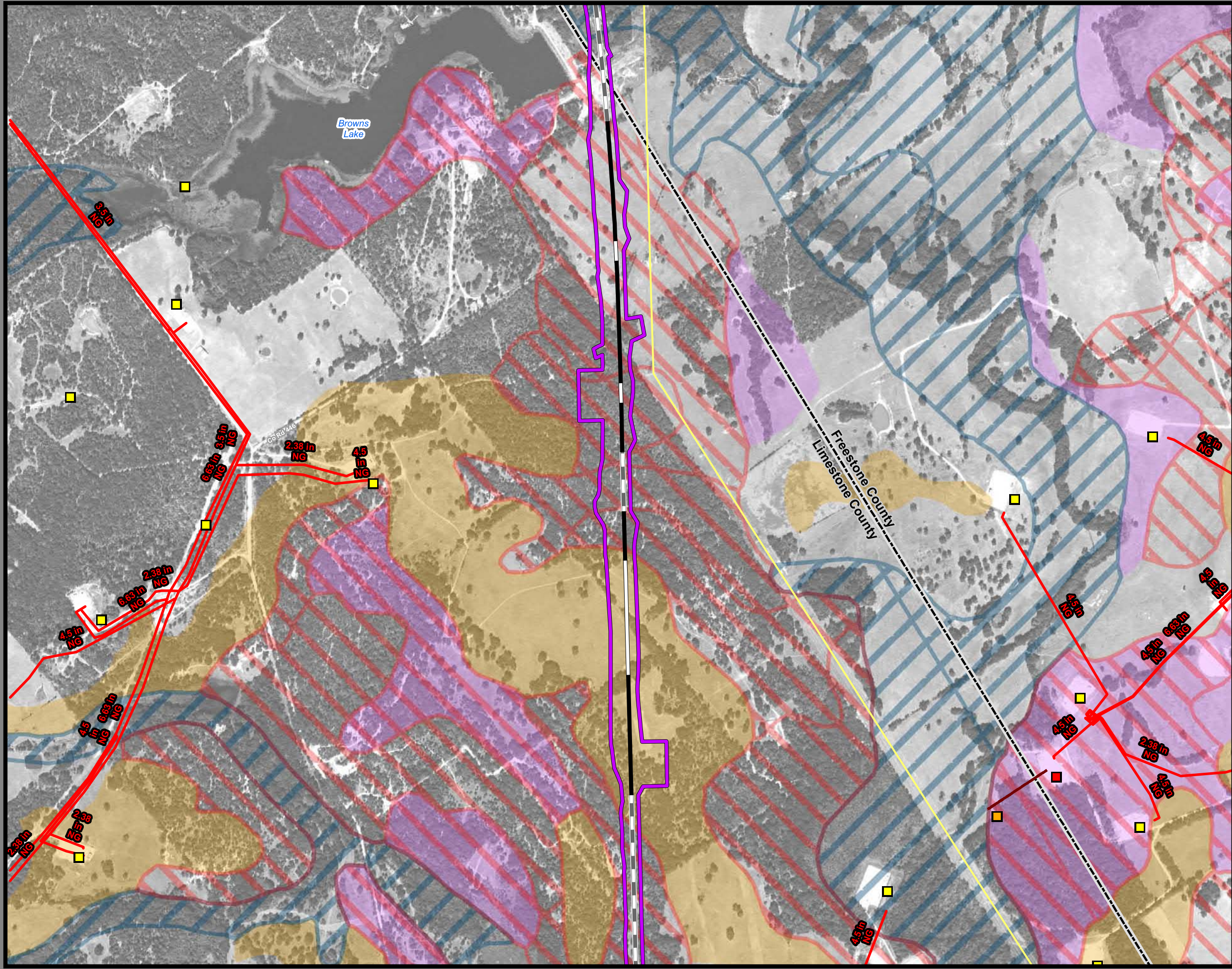
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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
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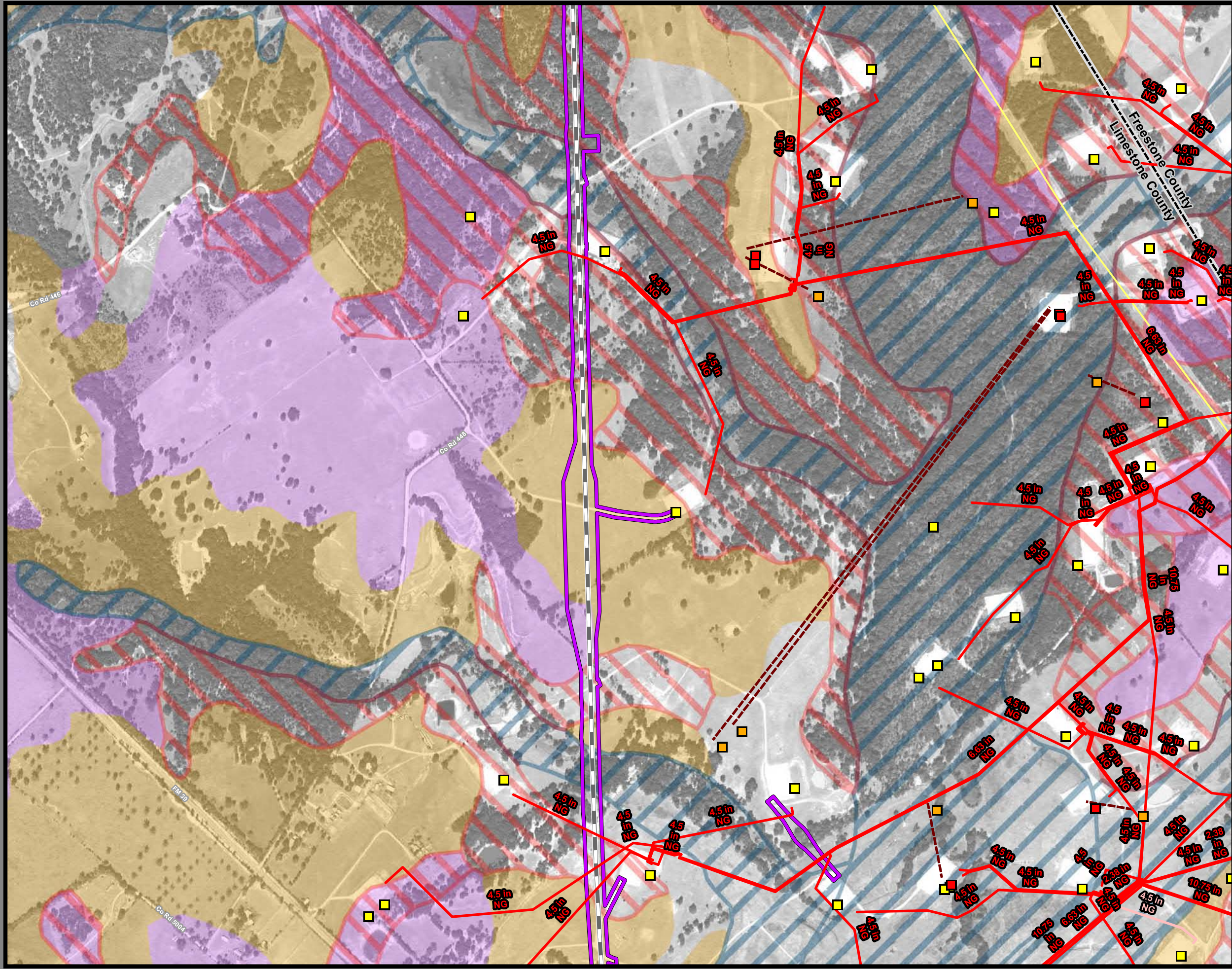
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well 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:
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Aerial Imagery: USDA NAIP 2014





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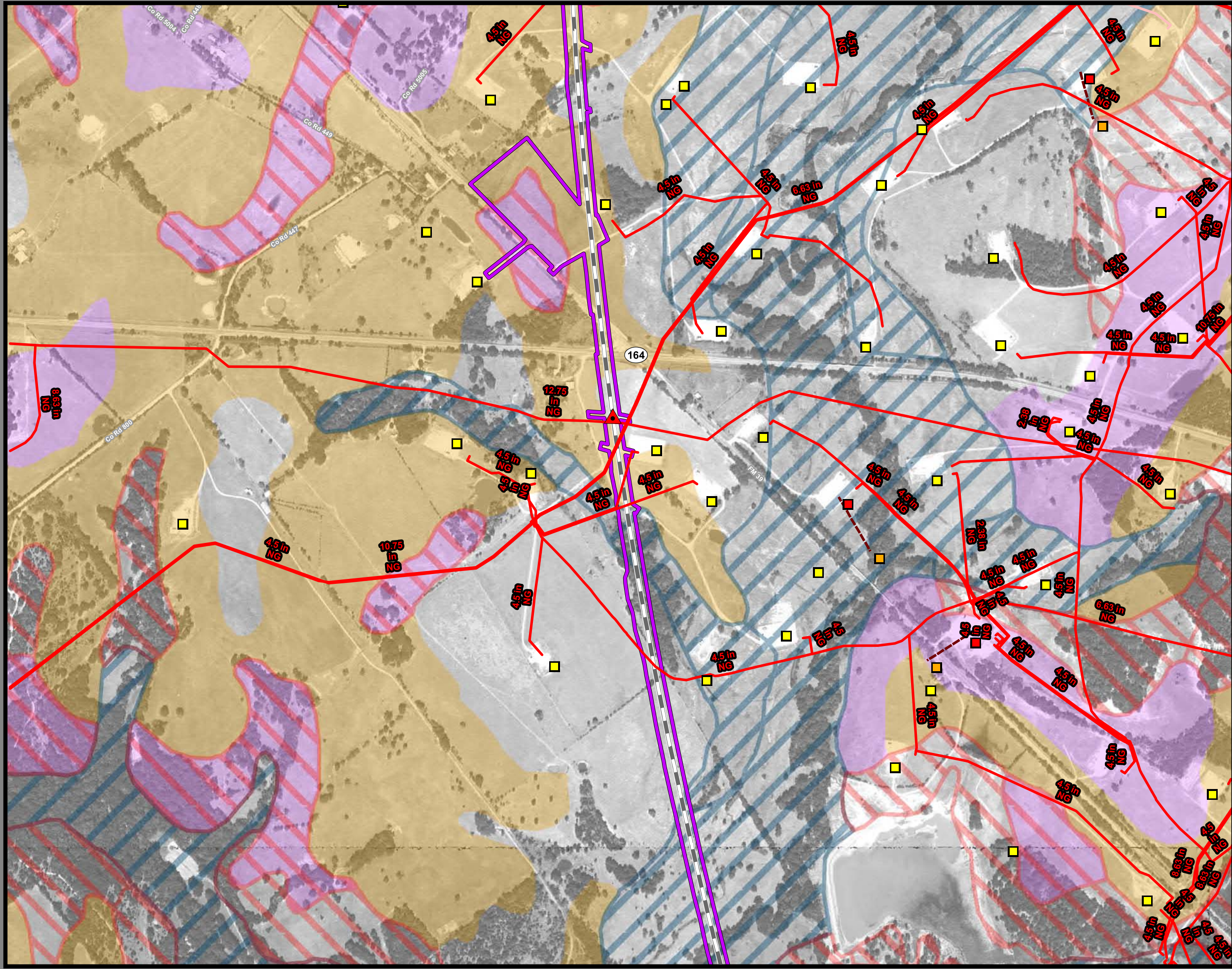
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Limits of Disturbance	Utilities
Segment 1	Mine
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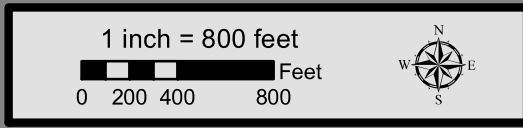
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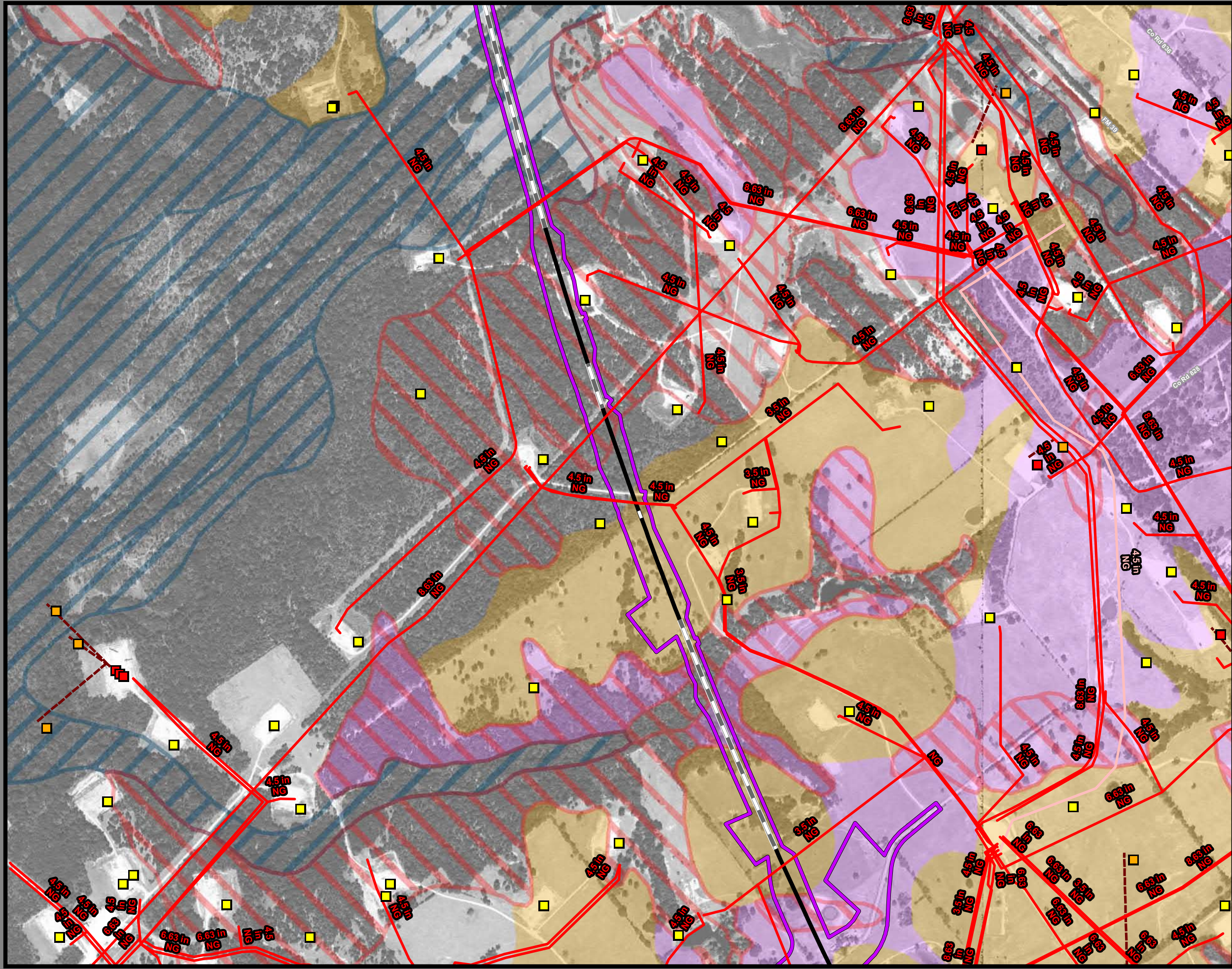
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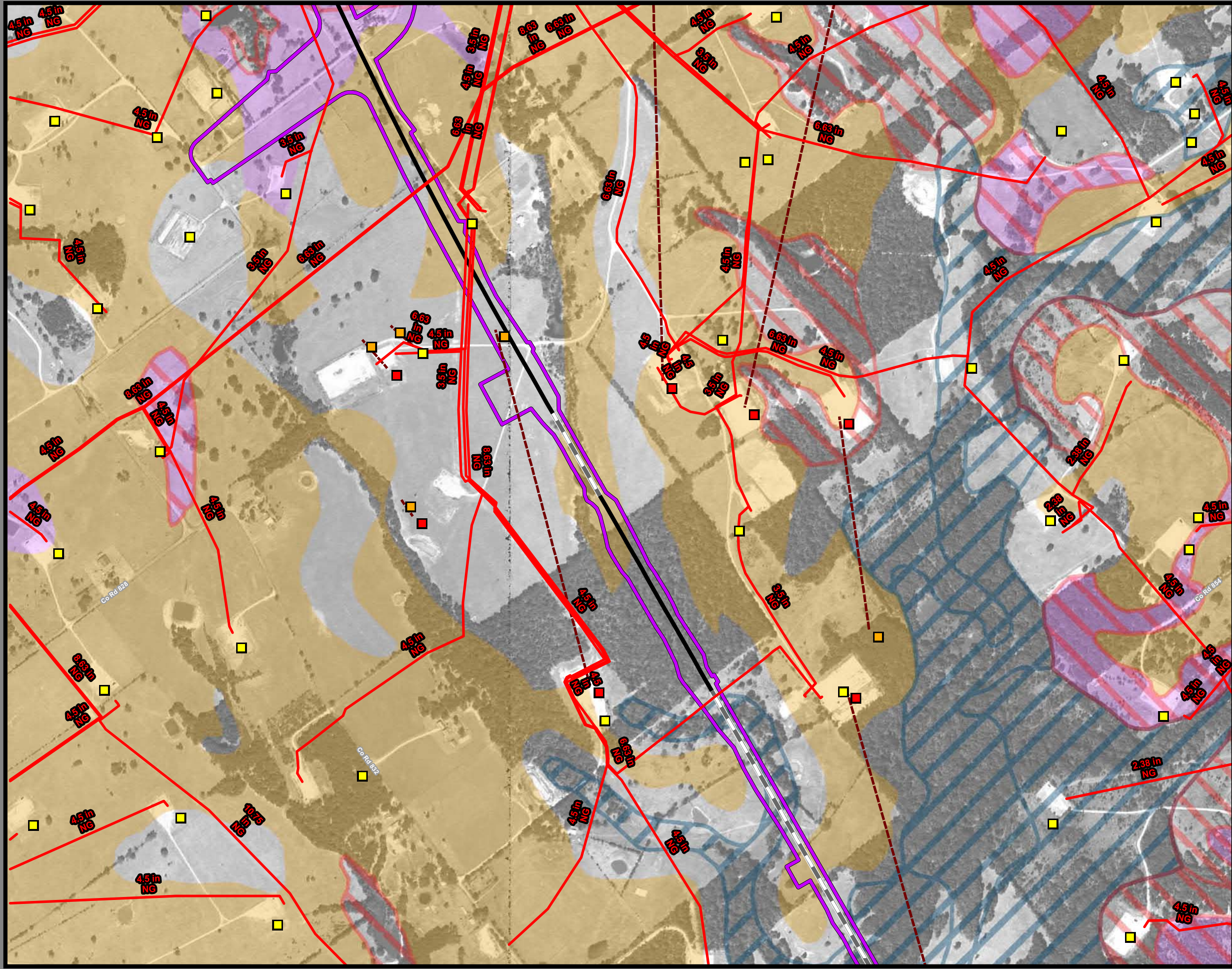
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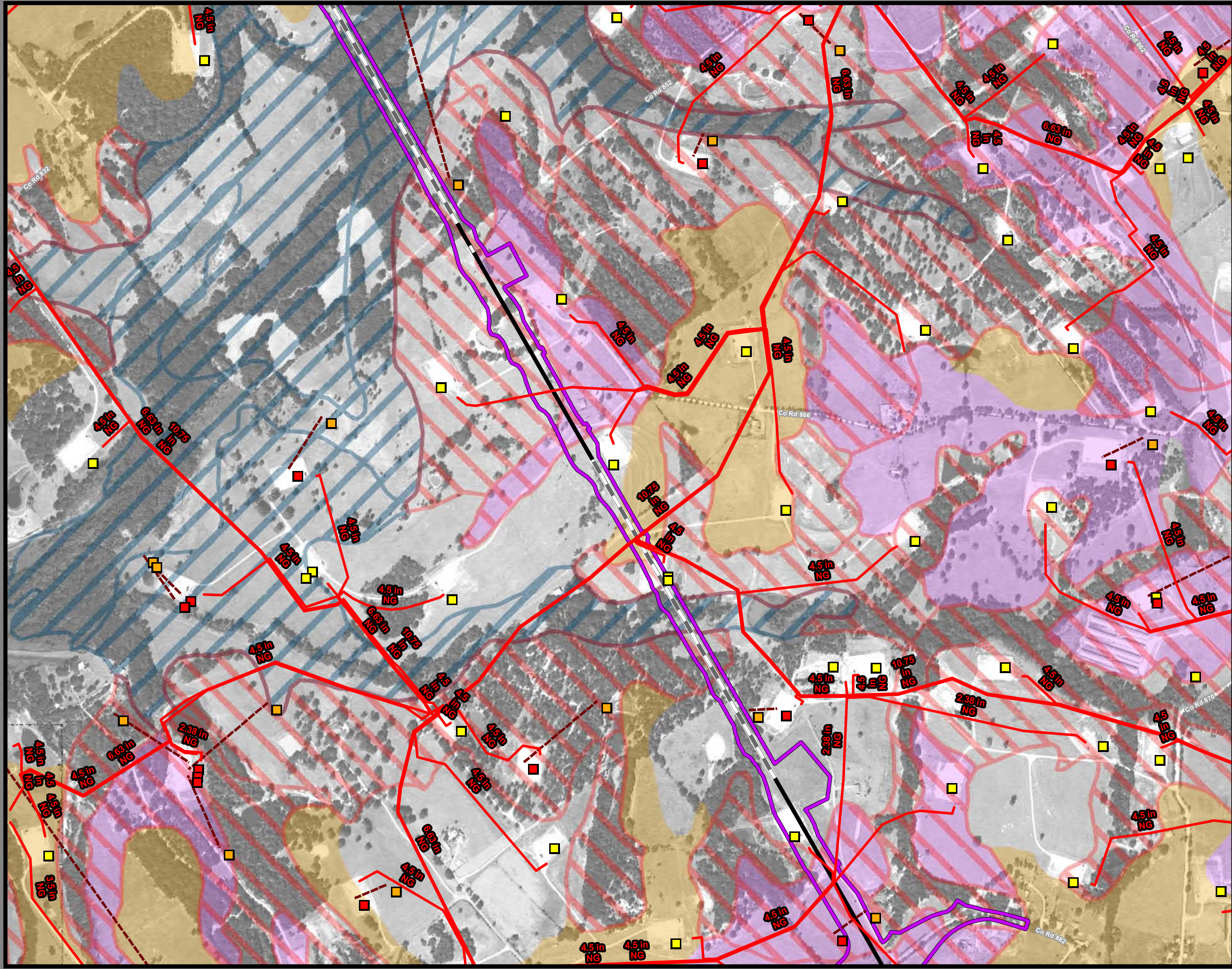
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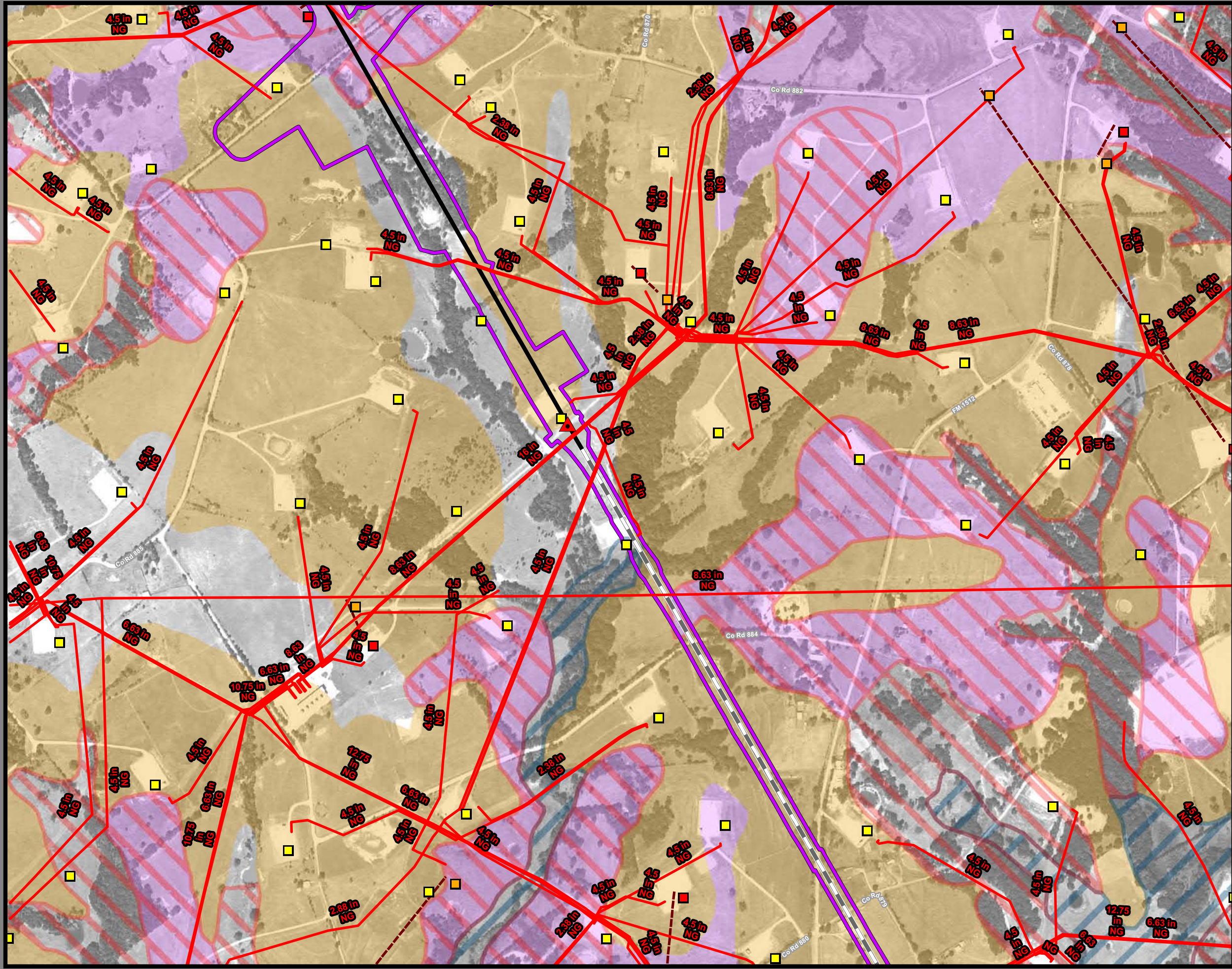
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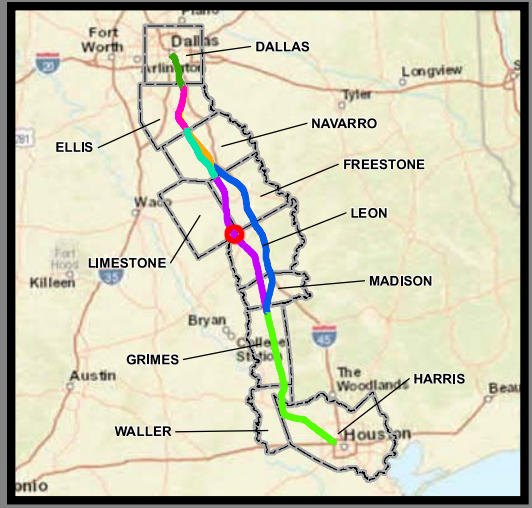
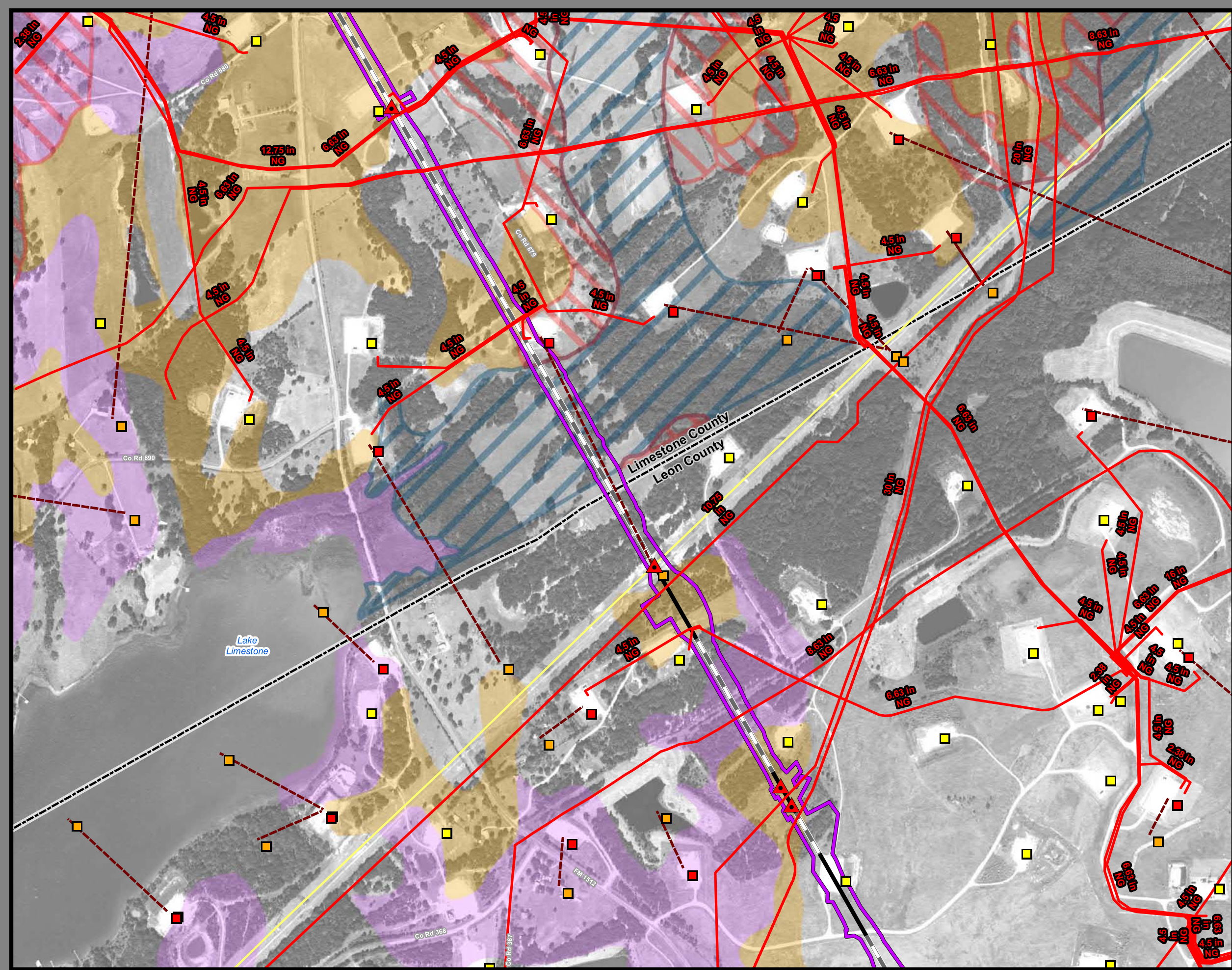
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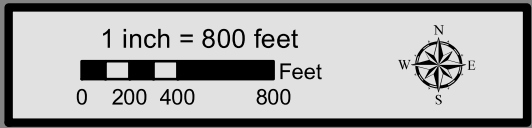
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Segment 4
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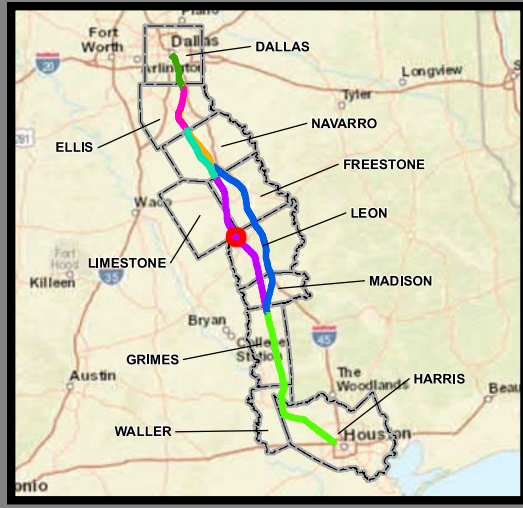
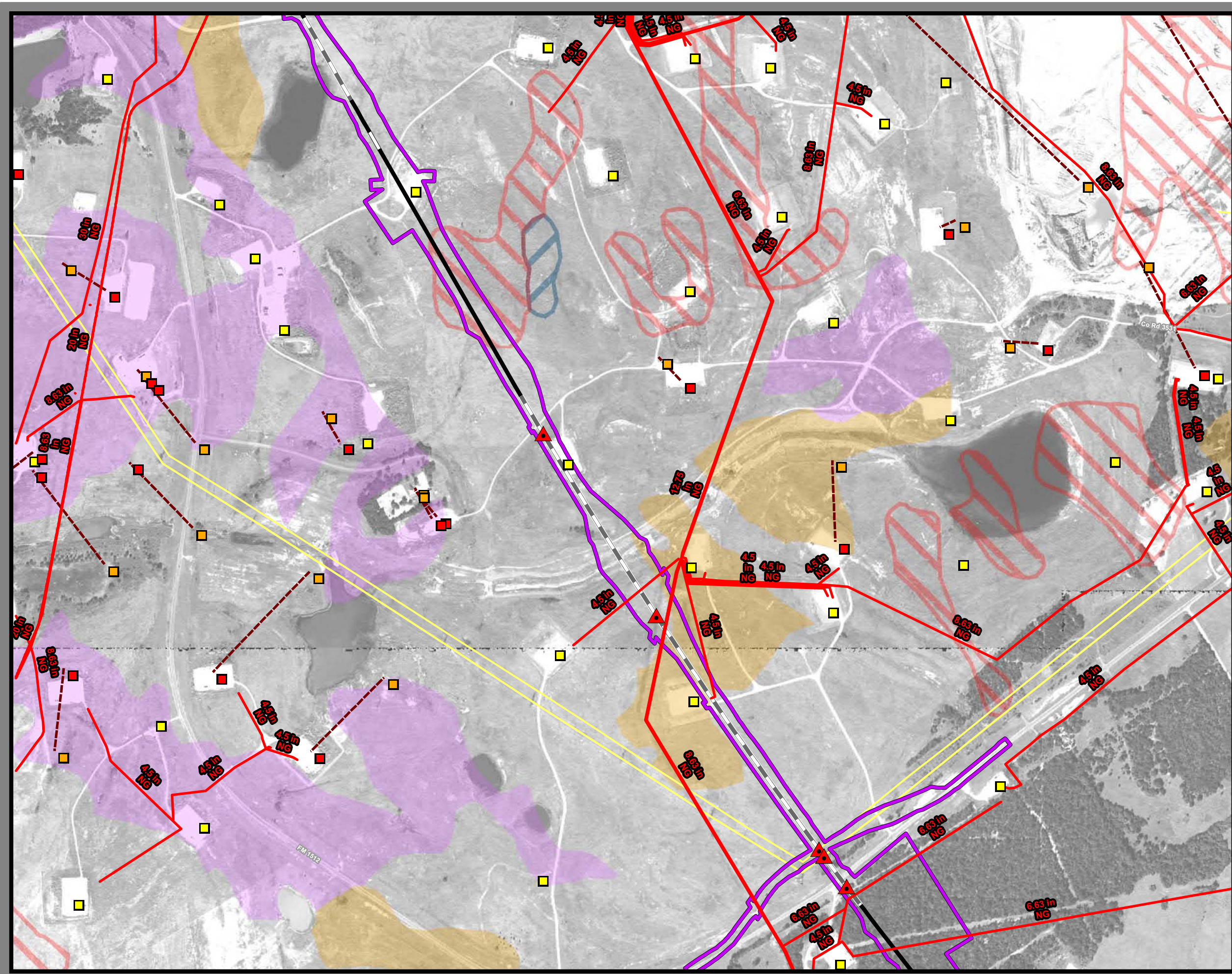
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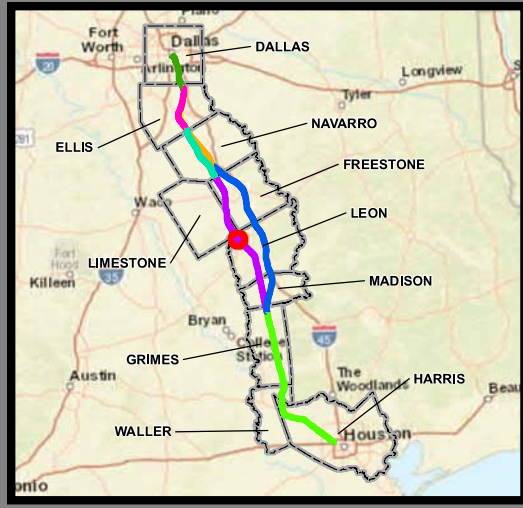
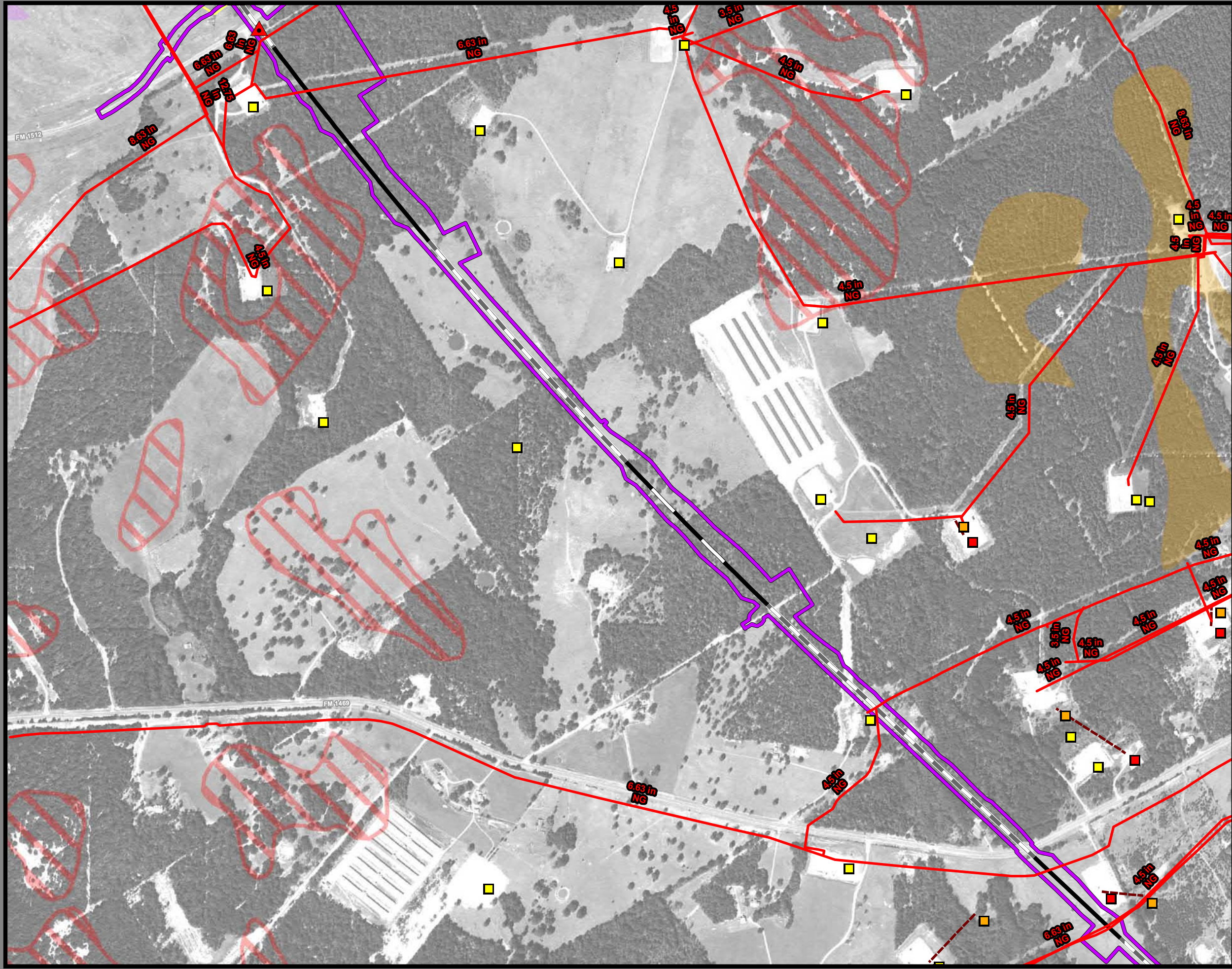
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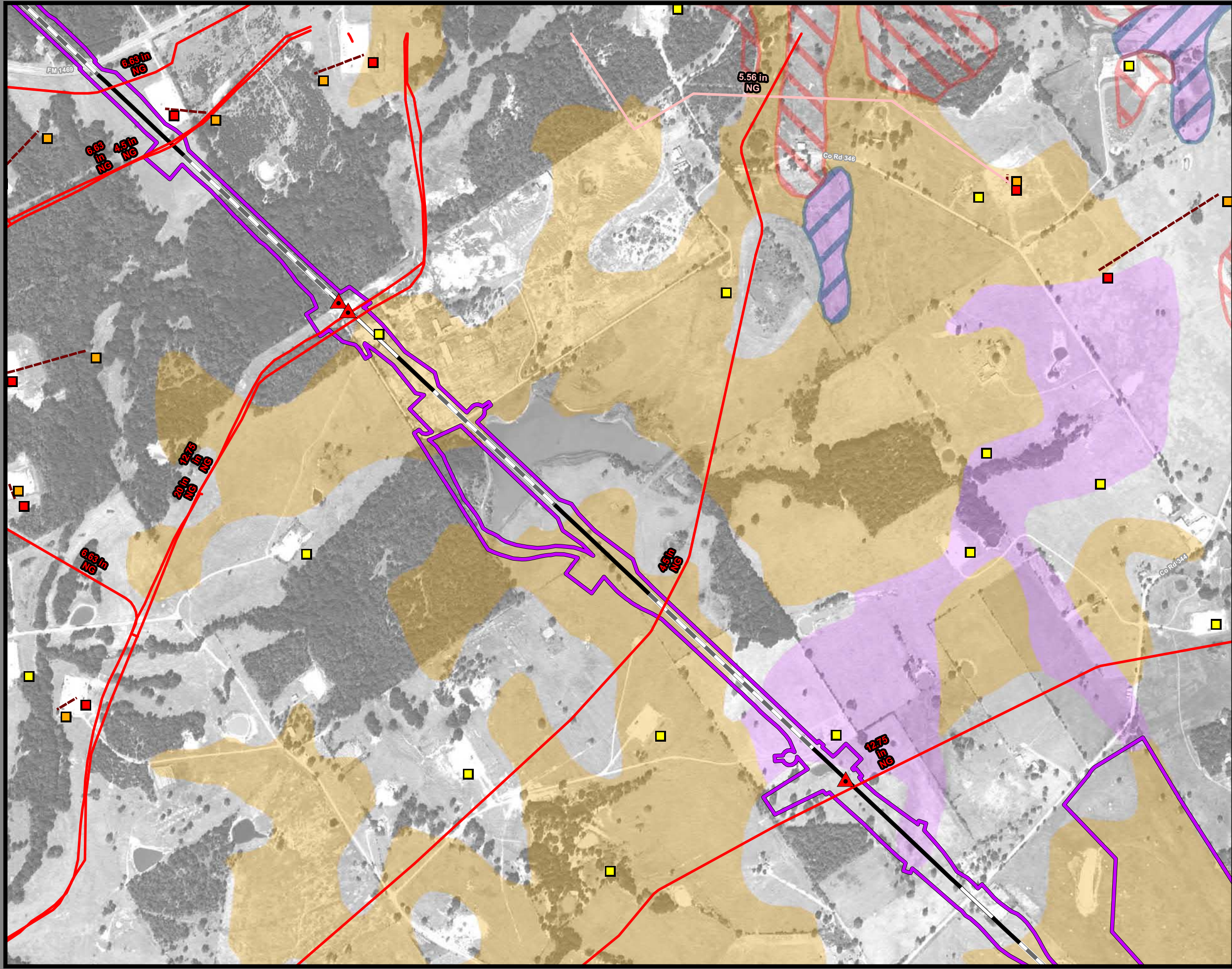
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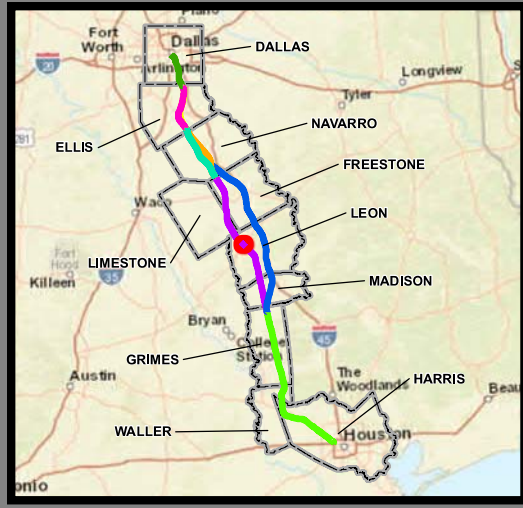
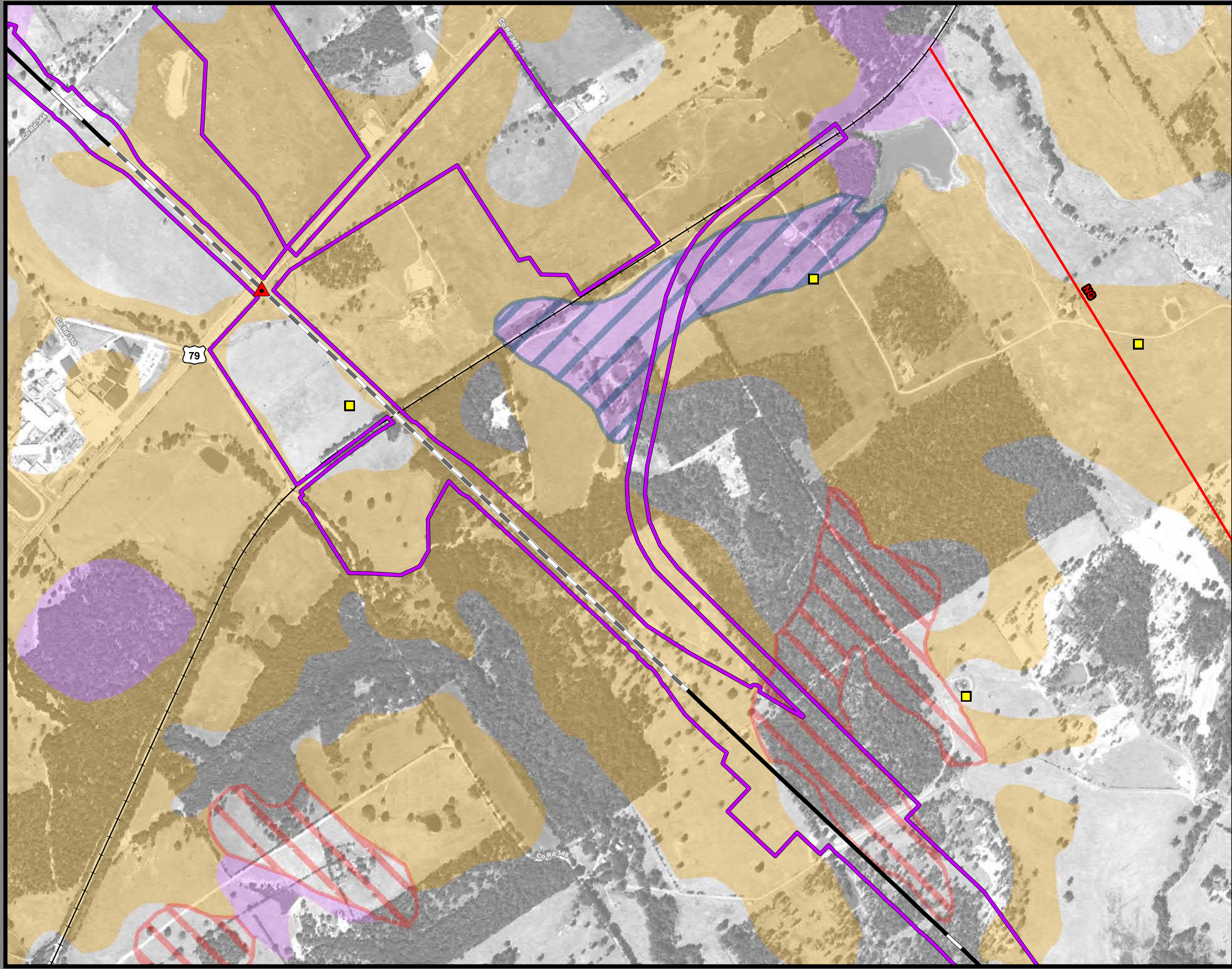
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Segment 4
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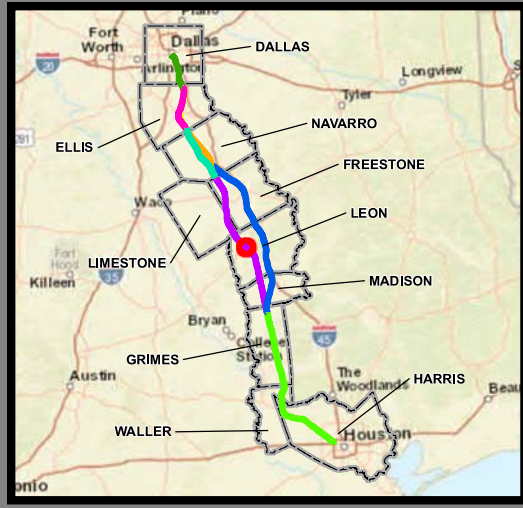
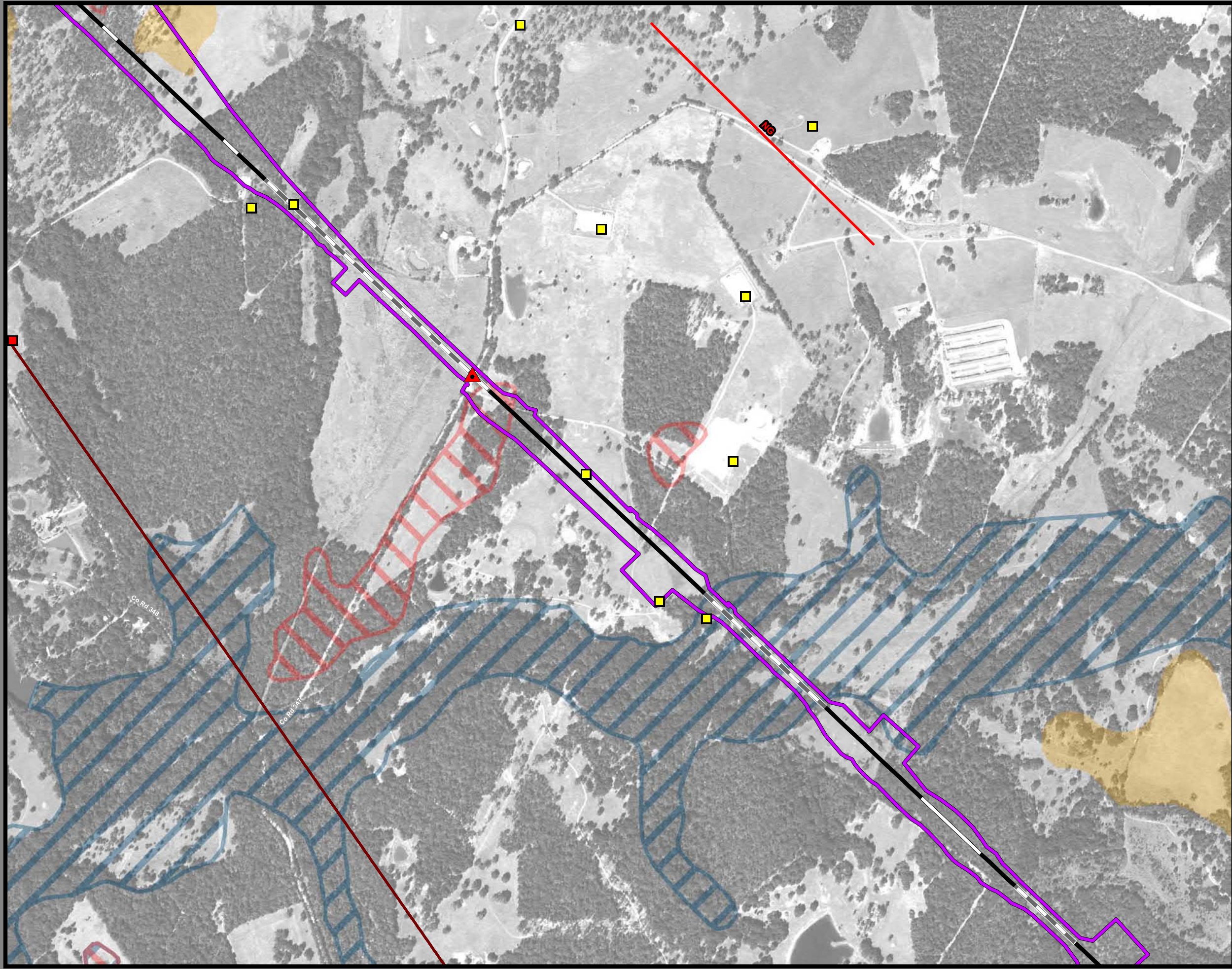
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High-Speed Rail Project
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Segment 4
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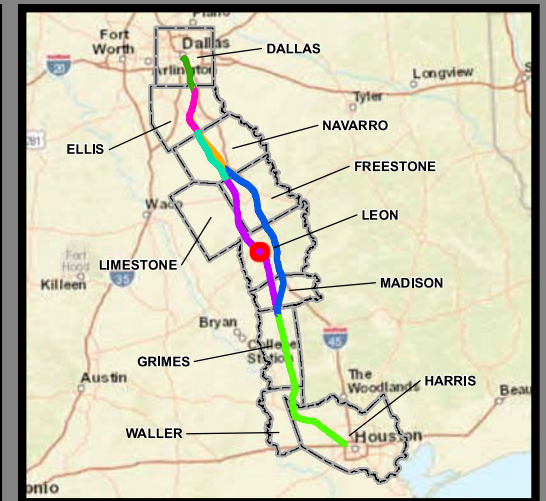
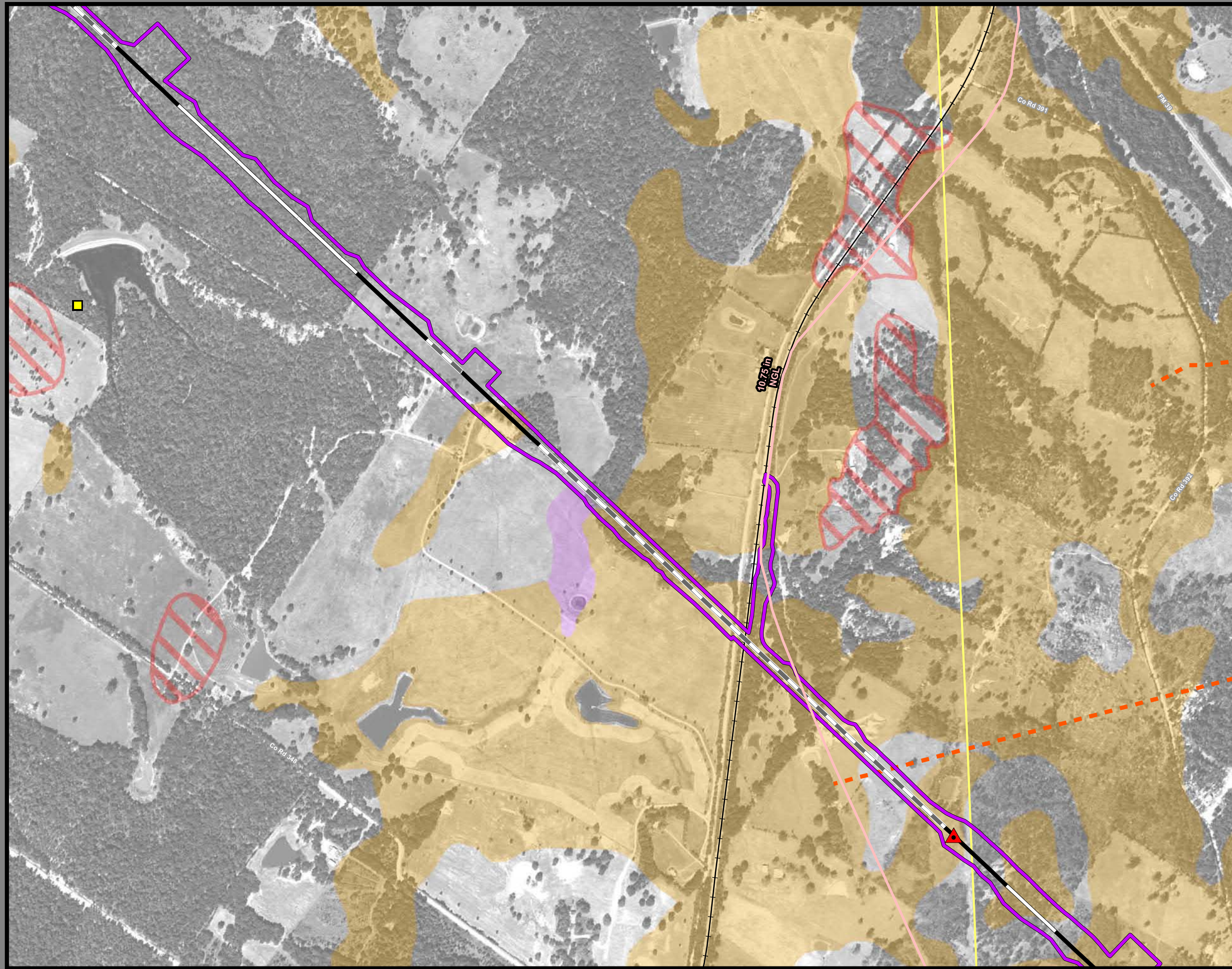
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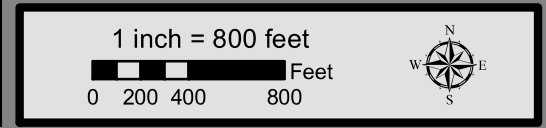
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Segment 4
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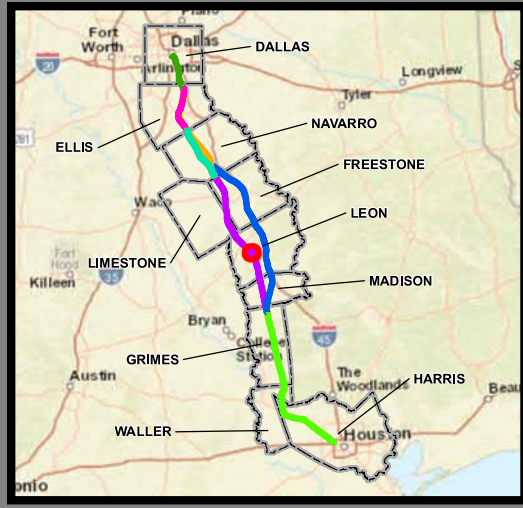
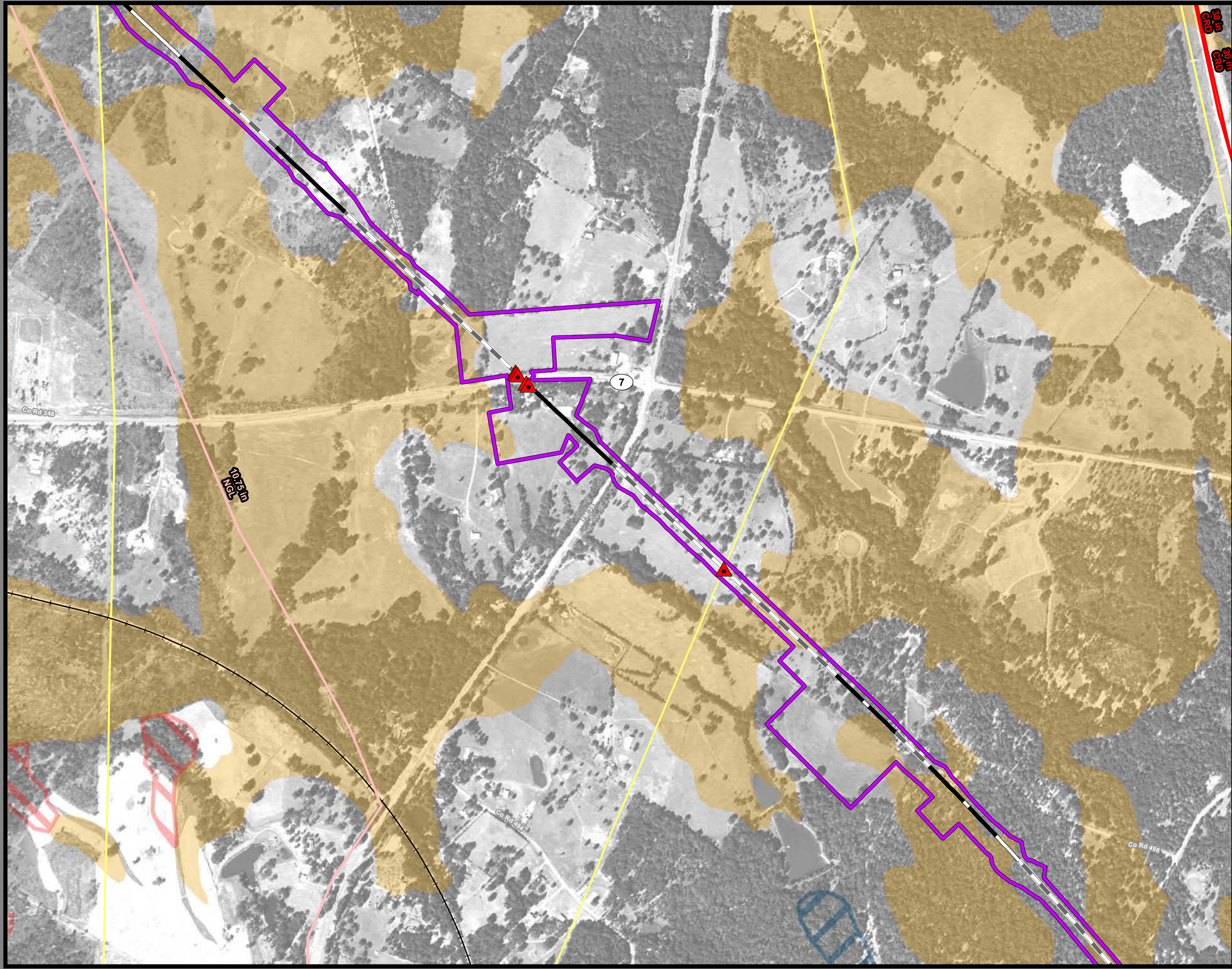
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	Prime Farmland if Drained

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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
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Segment 4
Sheet 180 of 257**

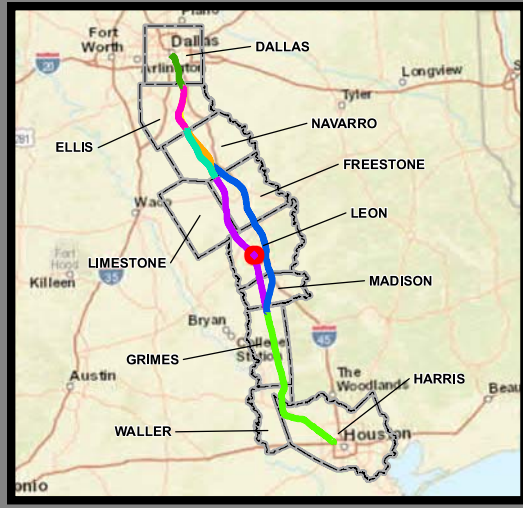
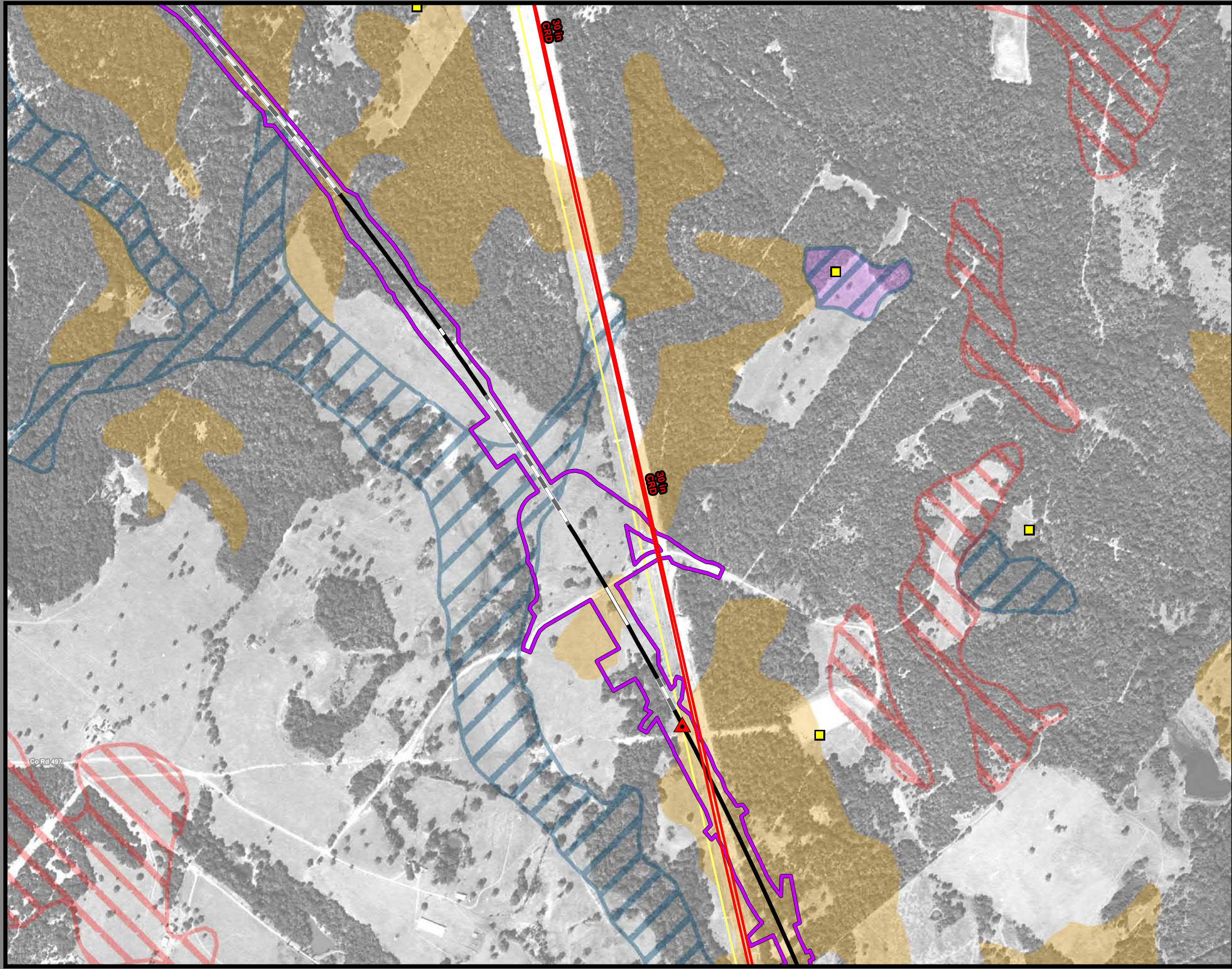
Legend

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





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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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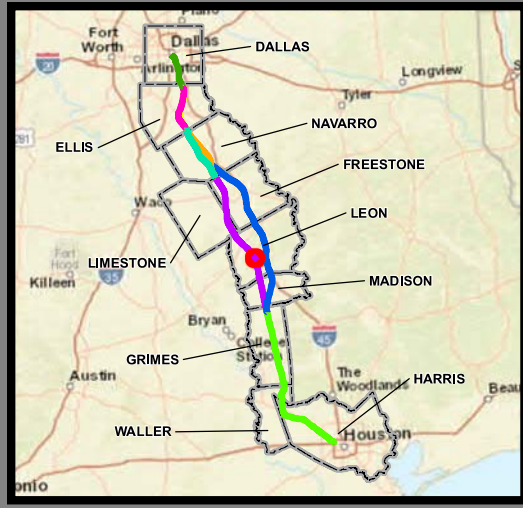
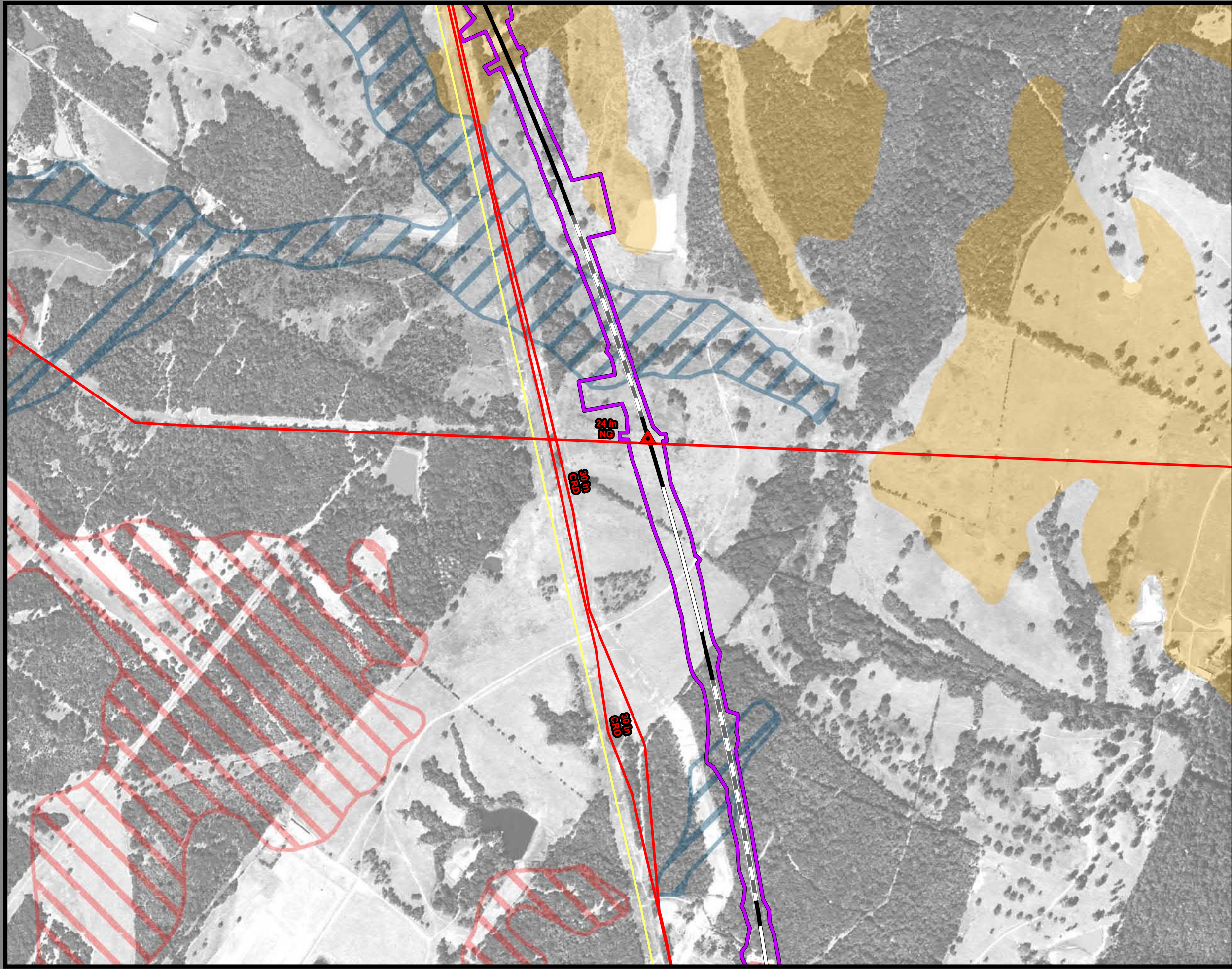
Legend

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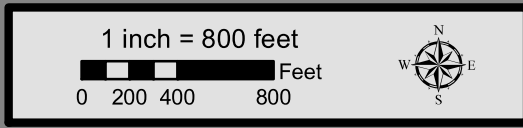
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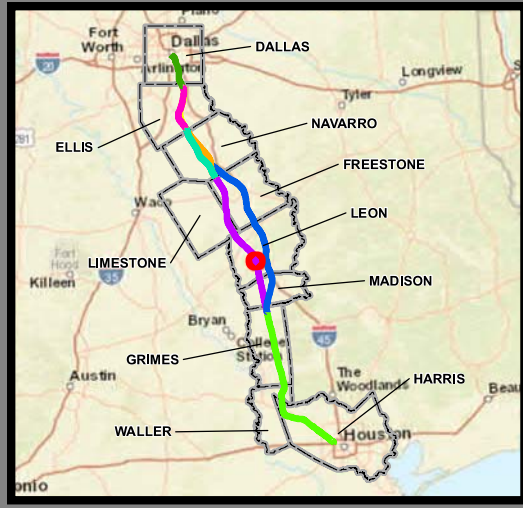
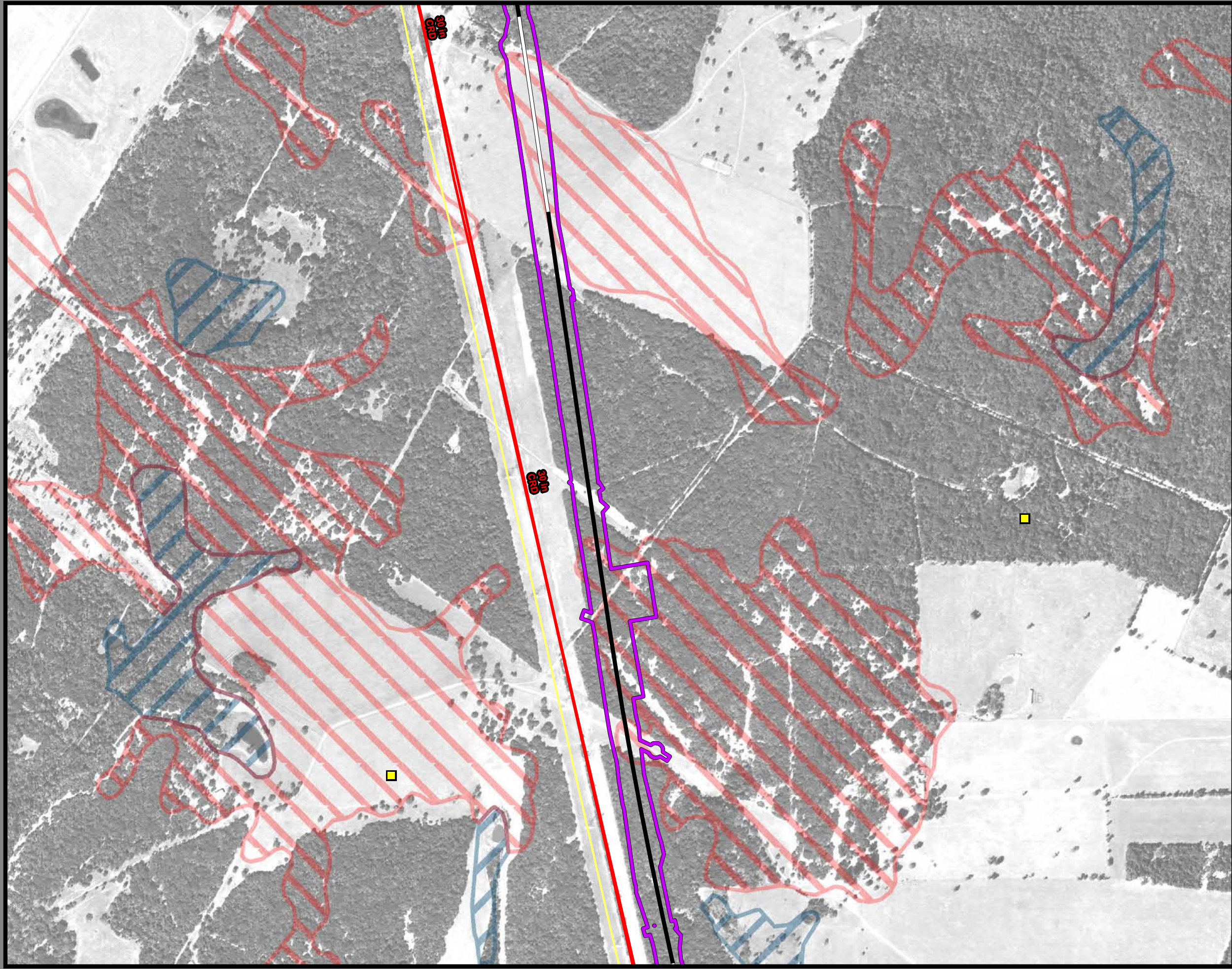
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active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

This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 131.

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

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
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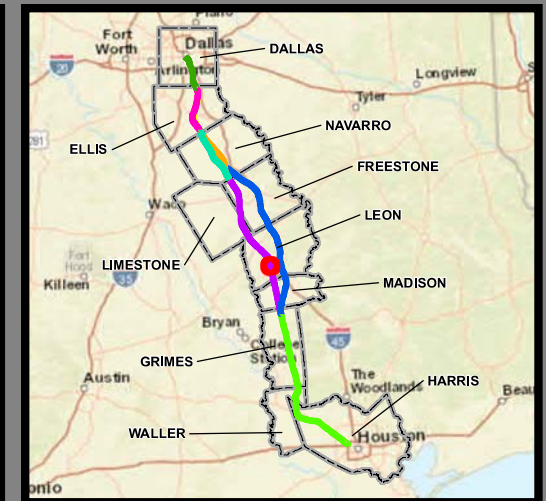
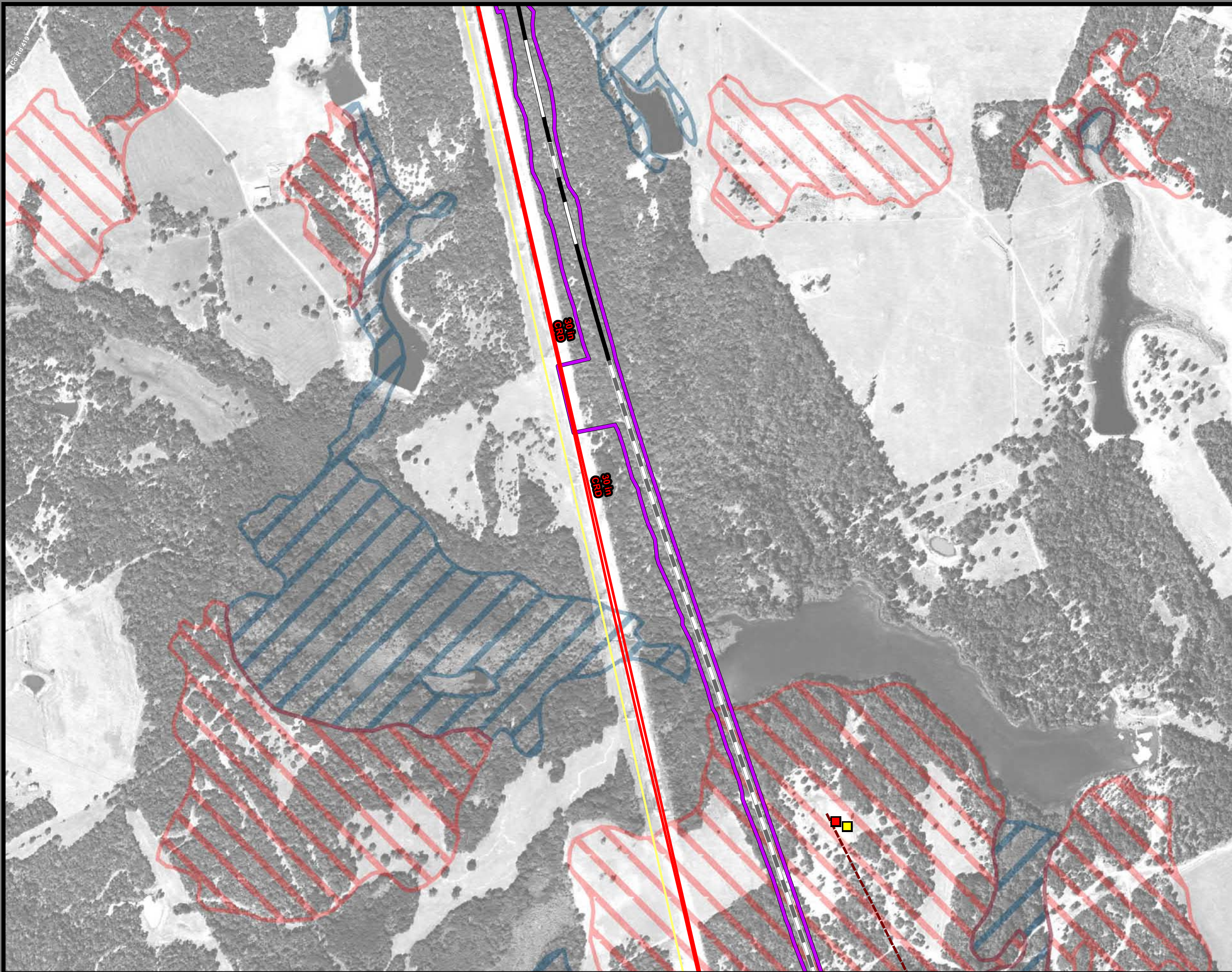
Legend

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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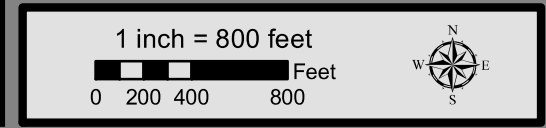
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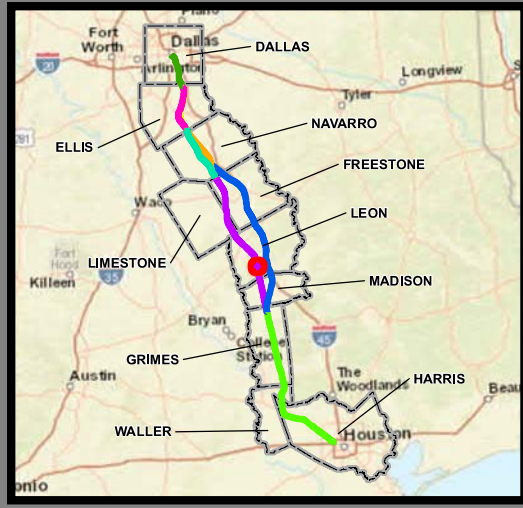
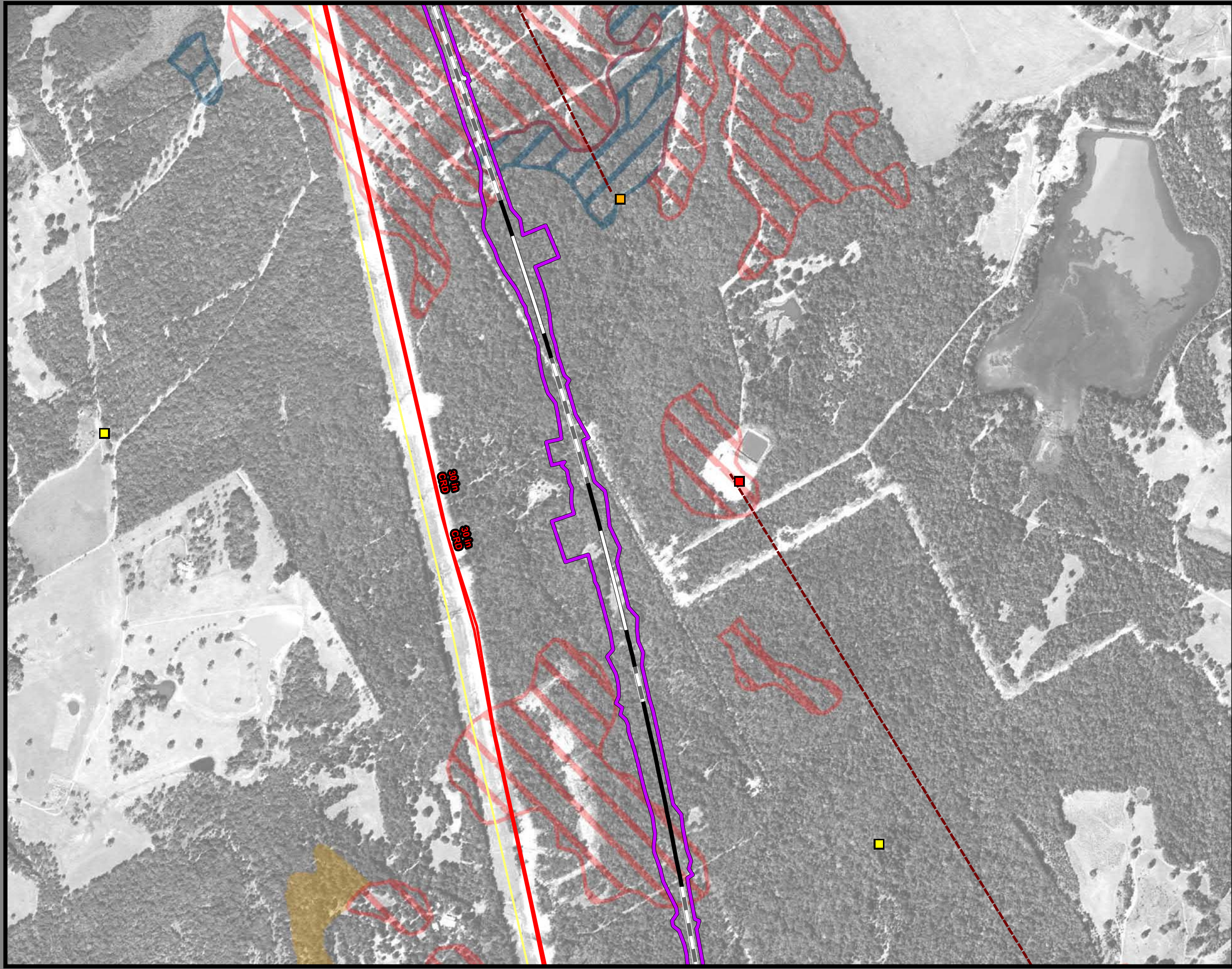
Legend

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
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Aerial Imagery: USDA NAIP 2014





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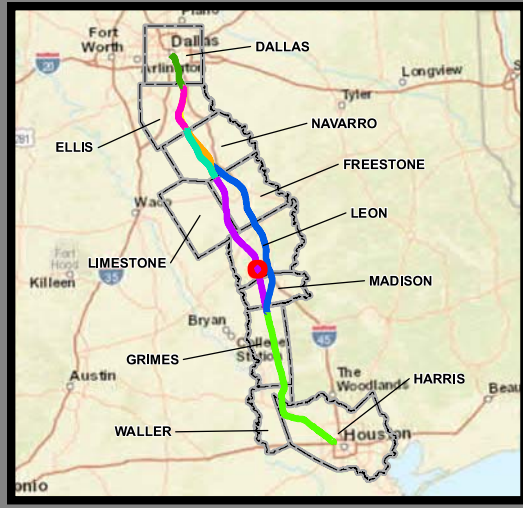
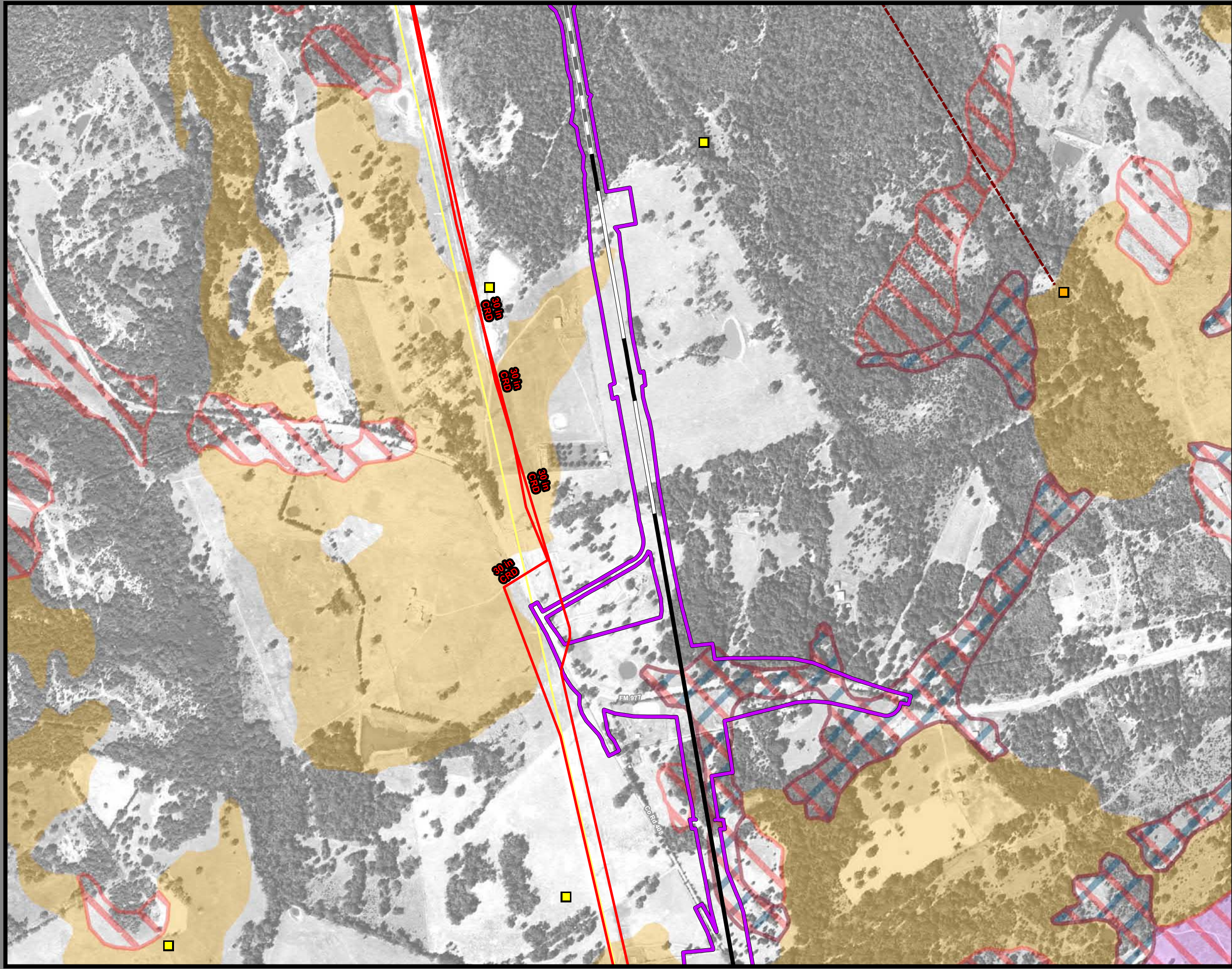
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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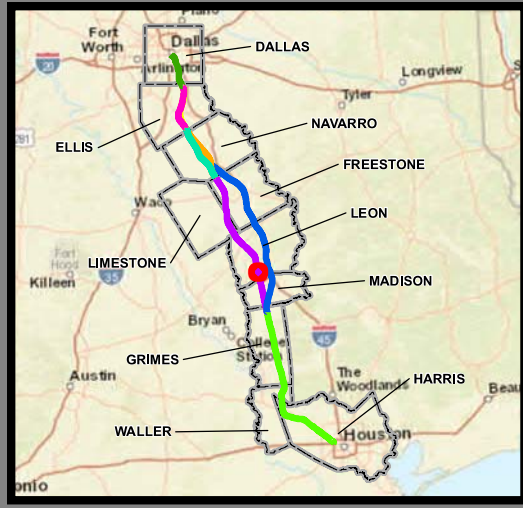
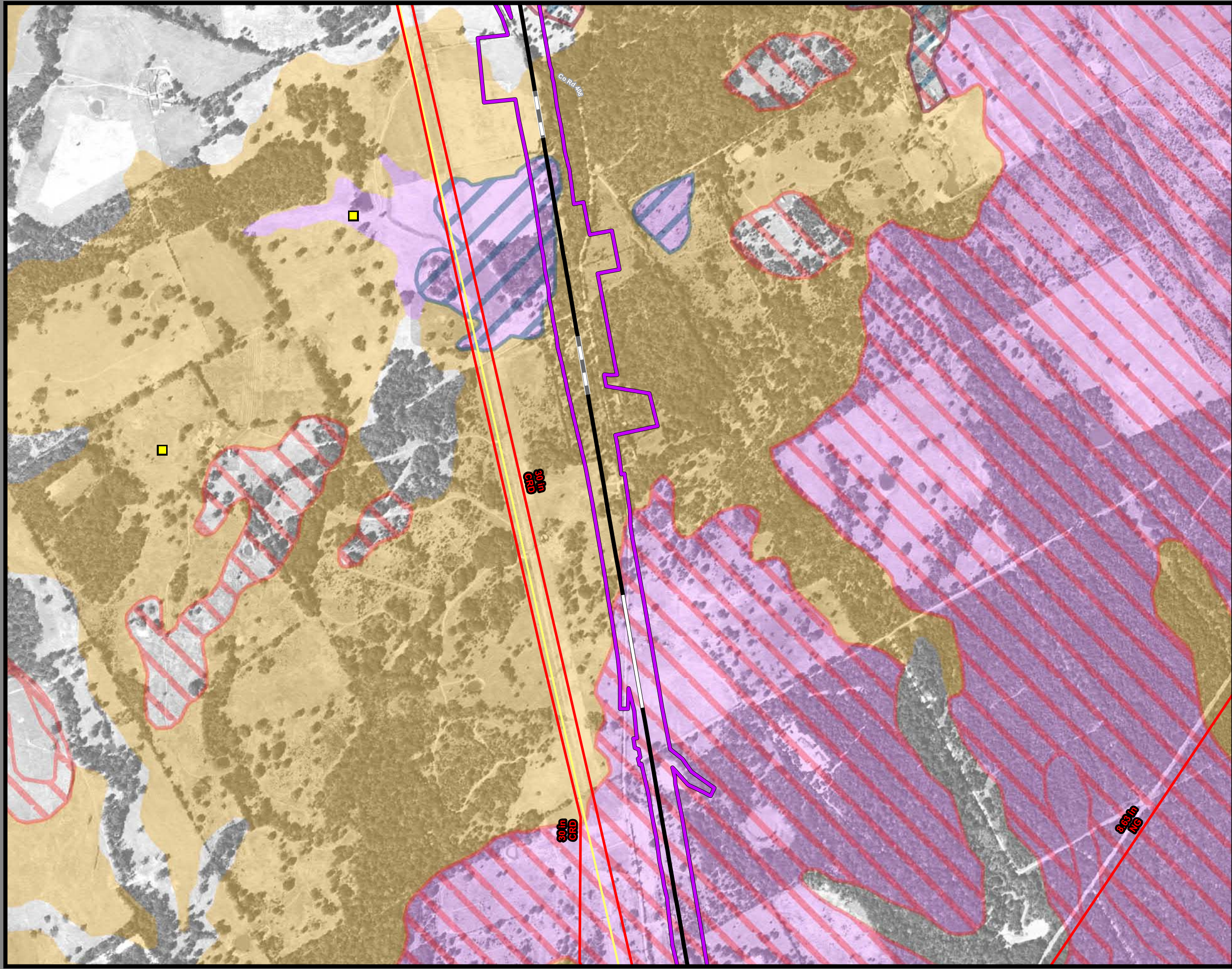
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Legend

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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