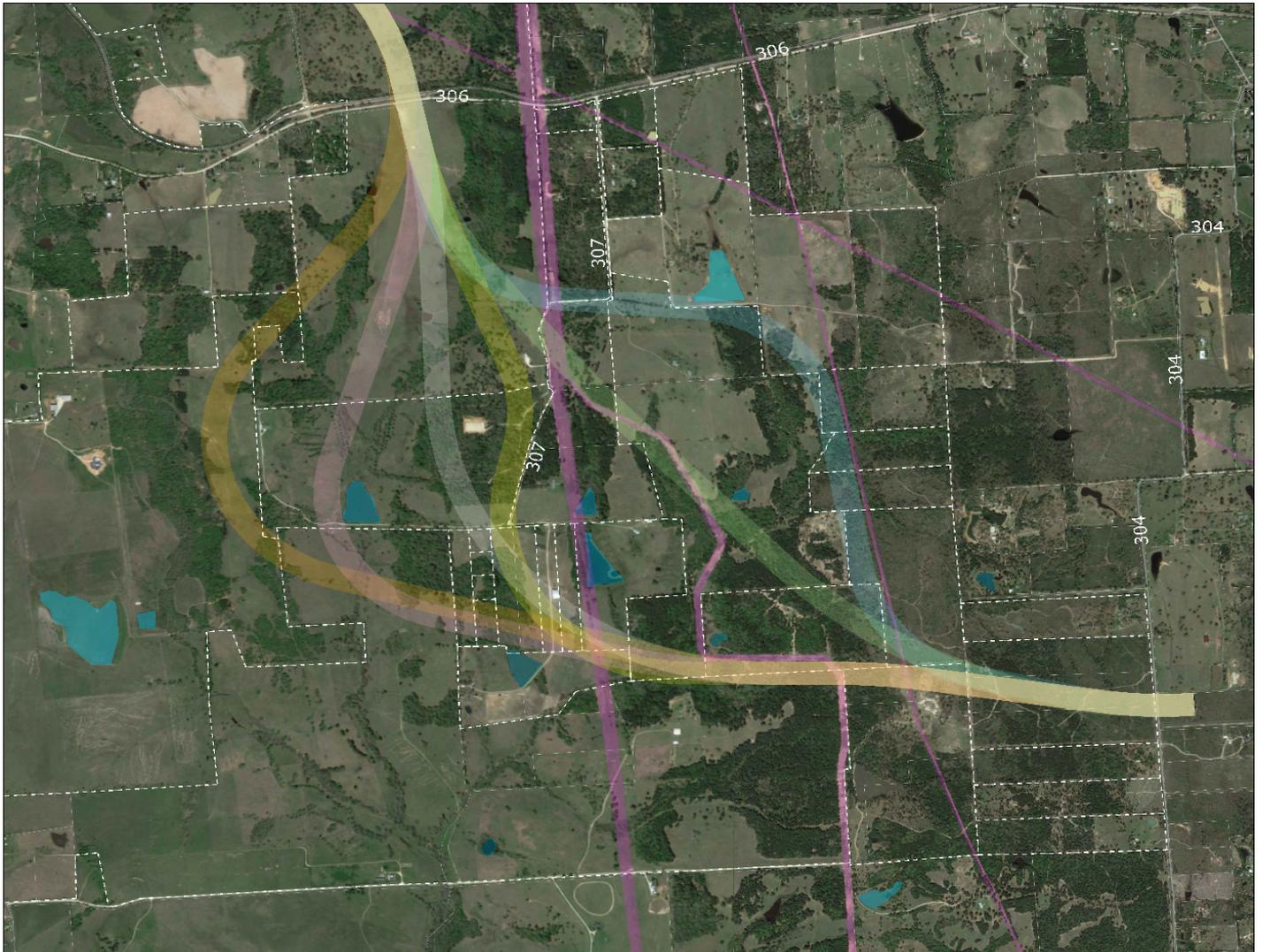


Comparative Alignment Alternatives Matrix

Six alignment alternatives were included in the alternatives matrix. The color-coded layout below designates the routes considered:



* Blue Route is the preferred alignment.

- 1) Alignments attempted to avoid existing homes
- 2) Alignments attempted to avoid dividing properties
- 3) Alignments are noted as 400 feet in width representative of the potential right of way footprint
- 4) No alignment includes right of way from a known oil or gas well
- 5) No alignment includes right of way from a known cemetery or grave site
- 6) Alignments maintain at or above minimum horizontal design criteria

Component	Orange	Pink	Black	Yellow	Green	Blue
Estimated Construction Cost (\$ Million)	\$35.5	\$33.4	\$29.5	\$29.8	\$27.8	\$28.1
Length of Proposed Roadway (Miles)	5.23	4.91	4.49	4.53	4.03	4.30
Distance from SH 105 (Miles)	6.5	6.5	6.5	6.5	6.5	6.5
Estimated ROW Acquisition (Acres)	253.6	238.2	217.5	219.5	195.3	208.3
Affected Parcels	16	14	14	13	6	11
Major Roadway Crossings	0	0	0	0	0	0
Railroad Crossings	1	1	1	1	1	1
Pipeline Crossings	3	3	3	3	5	3
Potential Relocations	0	0	0	0	0	0
Potential for Wetlands (No. of NWI areas)	1	0	2	0	0	1
Floodplain Impacts (Acres)	4.8	5.8	3.0	3.0	2.5	3.0
Stream Crossings	3	3	2	2	2	3
ROW/Utility/Acquisition Costs (\$ Million)	\$16.5	\$15.5	\$14.2	\$14.3	\$12.7	\$13.6
Total Cost (Including Construction)	\$52.0	\$48.9	\$43.7	\$44.1	\$40.5	\$41.7
Proximity to Homes (Low/Medium/High)	H	M	L	H	L	M
Property Division (Low/Medium/High)	M	H	H	M	H	L

Impact Least Second Least Most

Component	Orange	Pink	Black	Yellow	Green	Blue
Estimated Construction Cost (\$ Million)	+\$7.7	+\$5.6	+\$1.7	+\$2.0	\$27.8	+\$0.3
Length of Proposed Roadway (Miles)	+1.20	+0.88	+0.46	+0.50	4.03	+0.27
Distance from SH 105 (Miles)	-	-	-	-	6.5	-
Estimated ROW Acquisition (Acres)	+58.3	+42.9	+22.2	+24.2	195.3	+13.0
Affected Parcels	+10	+8	+8	+7	6	+5
Major Roadway Crossings (Overpass Required)	-	-	-	-	0	-
Railroad Crossings	-	-	-	-	1	-
Pipeline Crossings	-2	-2	-2	-2	5	-2
Potential Relocations	-	-	-	-	0	-
Potential for Wetlands (No. of NWI areas)	+1	-	+2	-	0	+1
Floodplain Impacts (Acres)	+2.3	+3.3	+0.5	+0.5	2.5	+0.5
Stream Crossings	+1	+1	-	-	2	+1
ROW/Utility/Acquisition Costs (\$ Million)	+\$3.8	+\$2.8	+\$1.5	+\$1.6	\$12.7	+\$0.9
Total Cost (Including Construction)	+\$11.5	+\$8.4	+\$3.2	+\$3.6	\$40.5	+\$1.2
Proximity to Homes (Low/Medium/High)	H	M	L	H	L	M
Property Division (Low/Medium/High)	M	H	H	M	H	L

The previously preferred alignment (Green Route), brought into question by stakeholders, is listed with actual values as the baseline. All data for each alternative alignment represents the difference as a comparison to this baseline alignment.

Based on this analysis, the **Blue Route is the preferred alignment** for this section of the project.