



Rolling Hills Substation to Burlington Substation

	Alternative - Segments																																			
	7 - B1, B3, B5, B7, B8, B9, B10, B13, B20, B21	8 - B2, B3, B5, B7, B8, B9, B10, B13, B20, B21	9 - B1, B3, B5, B6, B8, B9, B10, B13, B20, B21	10 - B2, B3, B5, B6, B8, B9, B10, B12, B14, B18, B20, B21	11 - B1, B3, B5, B7, B8, B9, B10, B12, B14, B18, B20, B21	12 - B2, B3, B5, B7, B8, B9, B10, B12, B14, B18, B20, B21	13 - B1, B3, B5, B7, B8, B9, B10, B12, B14, B19, B21	14 - B2, B3, B5, B7, B8, B9, B10, B12, B14, B19, B21	15 - B1, B3, B5, B6, B8, B9, B10, B12, B14, B19, B21	16 - B2, B3, B5, B6, B8, B9, B10, B12, B14, B19, B21	17 - B1, B3, B5, B6, B8, B9, B10, B12, B14, B19, B21	18 - B2, B3, B5, B6, B8, B9, B10, B12, B14, B19, B21	19 - B1, B3, B4, B8, B9, B10, B12, B14, B18, B20, B21	20 - B2, B3, B4, B8, B9, B10, B13, B20, B21	21 - B1, B3, B4, B8, B9, B10, B13, B20, B21	22 - B2, B3, B4, B8, B9, B10, B12, B14, B18, B20, B21	23 - B1, B3, B4, B8, B9, B10, B12, B14, B18, B20, B21	24 - B2, B3, B4, B8, B9, B10, B12, B14, B18, B20, B21	25 - B1, B3, B4, B8, B9, B10, B12, B14, B19, B21	26 - B2, B3, B4, B8, B9, B11, B14, B18, B20, B21	27 - B1, B3, B4, B8, B9, B11, B14, B18, B20, B21	28 - B2, B3, B4, B8, B9, B11, B14, B18, B20, B21	29 - B1, B3, B5, B7, B8, B9, B11, B14, B19, B21	30 - B2, B3, B5, B7, B8, B9, B11, B14, B18, B20, B21	31 - B1, B3, B5, B6, B8, B9, B11, B14, B18, B20, B21	32 - B2, B3, B5, B6, B8, B9, B11, B14, B18, B20, B21	33 - B1, B3, B5, B7, B8, B9, B11, B14, B18, B20, B21	34 - B2, B3, B5, B7, B8, B9, B11, B14, B18, B20, B21	35 - B1, B3, B5, B6, B8, B9, B11, B14, B19, B21	36 - B2, B3, B5, B6, B8, B9, B11, B14, B19, B21						
Category Ranks																																				
Engineering	22	1	24	3	29	12	25	10	28	12	30	16	18	1	27	11	26	12	20	7	16	4	18	6	23	9	15	4	20	8						
Geology and Soils	7	16	8	18	1	16	3	20	5	23	2	18	12	20	9	25	13	28	13	28	15	30	3	20	5	23	9	25	11	27						
Water Resources	27	12	29	15	15	2	27	12	29	15	20	5	24	9	12	1	24	9	15	2	22	7	19	4	21	6	23	8	26	11						
Vegetation	25	19	25	19	25	10	19	7	19	7	25	10	25	19	25	10	19	7	16	4	13	1	16	4	16	4	13	1	13	1						
Wildlife	19	22	19	22	1	7	13	25	13	25	1	7	19	22	1	7	13	25	1	7	13	25	1	7	13	25	13	25	25							
Land Use	4	9	8	14	16	23	2	5	3	9	20	24	7	11	19	22	1	6	26	29	13	18	25	28	27	30	12	15	17	20						
Cultural Resources	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Category Rank Total	105	80	114	92	88	71	90	80	98	92	99	81	106	83	94	77	97	88	92	78	93	86	83	70	94	80	86	79	101	93						
Alternative Rank	28	6	30	17	14	2	16	6	25	17	26	9	29	10	22	3	24	14	17	4	20	12	10	1	22	6	12	5	27	20						

Proposed Route
 Alternative Route
 Other Route

Proposed, alternative, and other routes are subject to change.

Description & Results

The Rolling Hills Substation to Burlington Substation transmission line would be approximately 163 miles in length. The transmission line would begin at the new Rolling Hills Substation near Holcomb, Kansas, cross U.S. Highway 40 near the town of Sharon Springs, Kansas, and end at the existing substation near Burlington, Colorado.

Route refinement eliminated several segments east of the segments B10 and B13 in response to concerns about prime farmland, homes, and lesser prairie chicken habitat. Several segments were adjusted north of the Rolling Hills Substation to provide better alternatives for routing to Burlington, while avoiding congested areas around the town of Holcomb.

Alternative 30 was identified as the proposed route because it ranked better in water resources, vegetation, wildlife, and engineering. It also minimizes effects to agricultural lands and lesser prairie chicken habitat.

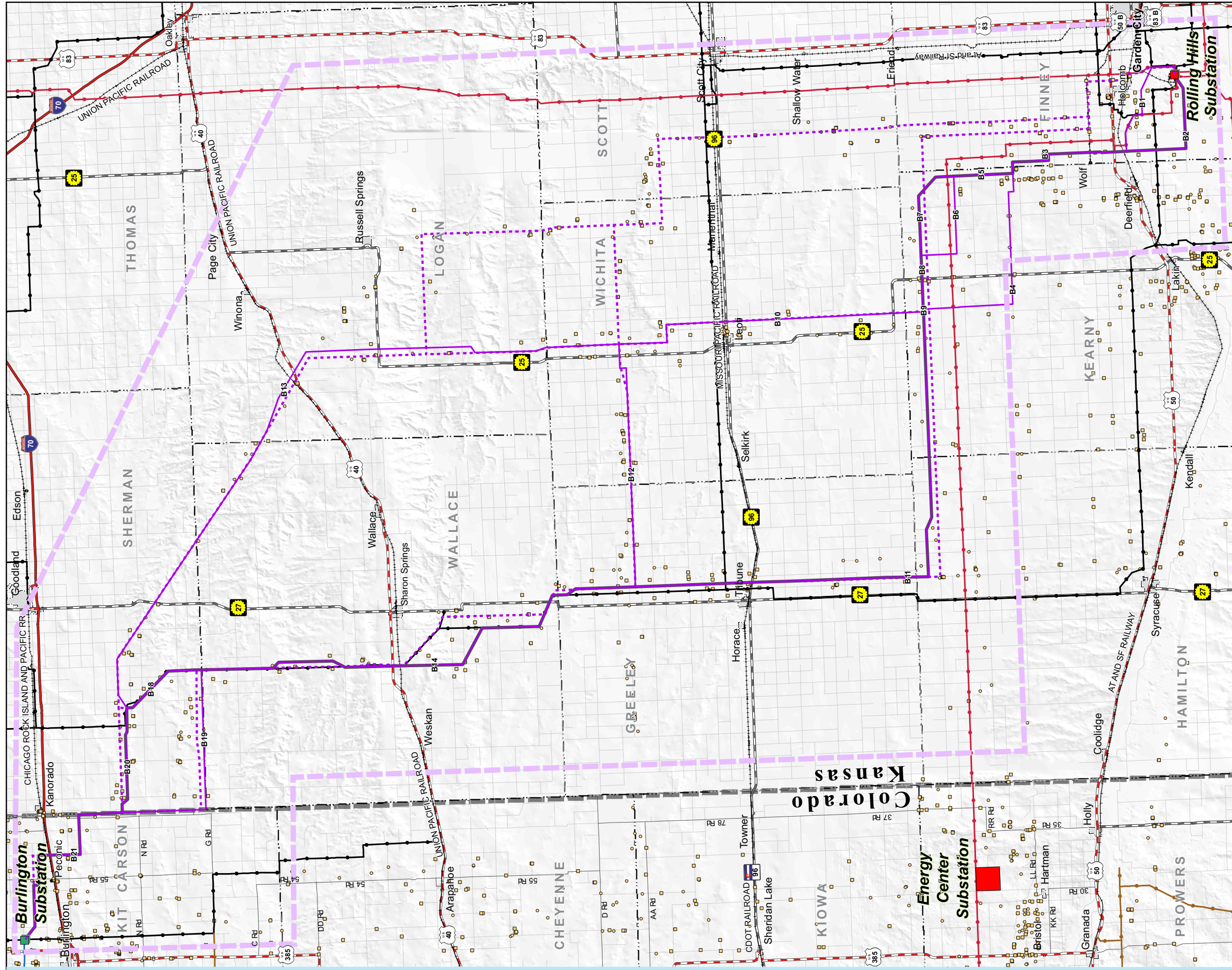
The alternatives routes (12, 22 and 26) were chosen because they exhibited better opportunities for system engineering and fewer effects to natural resources than the other alternatives.

Siting Considerations

The proposed and alternative routes respond to scoping comments and additional ground and aerial surveillance. Several of the routes between substations were re-labeled for the sake of organization and consistency. The segments between Rolling Hills Substation and Burlington Substation were re-labeled from “A” to “B”.

Route-specific comments from scoping included:

- Prefers A1, A3, A5, A11, A12, A14, and A15
- Avoid A11
- Prefer A5 and A11 (stay west of Leoti)
- Move A9 and A10 1.5 to 2 miles to the west (to avoid residences)



Base Map
Rolling Hills to Burlington

Legend

Substations

- Existing Substation
- Proposed Substation
- Siting Area

Analysis Area

- Rolling Hills to Burlington

Transportation

- Interstate Highway
- State Highway
- U.S. Highway
- Minor Road
- Major Road
- Railroad

Structures

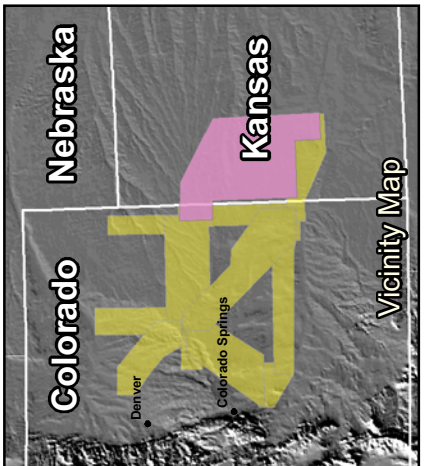
- Residence
- Other Structure

Existing Transmission Lines

- 115 kV Transmission Line
- 230 kV Transmission Line
- 345 kV Transmission Line
- 69 kV Transmission Line

Routes

- Proposed (500-kV)
- Alternative (500-kV)
- Previous (500-kV)



1:250,000 When printed at 22 x 34 inches

0 1.5 3 6 9 12 Miles

Data Source:
 ESRI (Cities), BTS (Highways), National Atlas (States), NED (Hillshade), CDOT (CO Counties, Rail, City Boundaries), Census (KS Rail, City Boundaries), KS Geol Survey (KS Counties), Xcel, Western (Existing Transmission Lines)

Last Revised:
 01/12/07

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Eastern Plains Transmission Project

