TABLE 4-1. ENVIRONMENTAL AND LAND USE DATA FOR THE PROPOSED ALTERNATIVE ROUTES

EVALUATION CRITERIA																				
LAND USE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 Length of route (feet)	17,250	15,492	14,499	16,835	16,272	14,179	11,960	13,485	12,901	13,171	13,194	13,318	15,809	15,692	28,629	23,396	24,030	29,873	24,460 2	20,560
2 Length of route (miles)	3.27	2.93	2.75	3.19	3.08	2.69	2.27	2.55	2.44	2.49	2.50	2.52	2.99	2.97	5.42	4.43	4.55	5.66	4.63	3.89
3 Number of directly affected habitable structures[1] within 300 feet of route centerline	1	6	4	7	9	33	32	35	38	39	35	35	37	42	168	167	167	165	164	198
4 Number of directly affected habitable structures [1] also within 300 feet of an existing transmission line	0	0	0	0	3	4	4	4	4	4	4	4	4	4	161	161	161	161	161	37
5 Length of route using existing transmission line ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
6 Length of route parallel to existing transmission line ROW	0	0	0	0	202	202	202	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Length of route not utilizing/paralleling existing transmission line ROW	17 250	15 492	14 499	16 835					12 901	13 171	13 194	13 318	_	,	_	_		17 003	11,590 1	16 006
8 Length of new ROW required for route																			11,590 1	
9 Length of route parallel to apparent property lines (or other natural or cultural features)[2]		2,552														4,076				747
10 Length of route parallel to other existing ROW (roadways, railways, canals, etc.)		2,023								3,023				5,605					1,120 1	
11 Length of route not parallel to railroad ROW, apparent property lines, or other existing ROW (roadways, railways, etc.)															_				20,078	
12 Percent of route parallel with apparent features (existing ROWs or property lines)					55%		77%				55%		40%		75%		74%	68%		78%
	0	0	0	00 /8	315		315	03 /8	0	0			0	03 /6	0	0	0	00 /6		0
[g	0		0						1	1	0	0							0	
14 Number of additional parks/recreational areas[3] within 1,000 feet of route centerline	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Length of route across agricultural land/cropland	7 000	U	0 501	0	0	0	0	0	0 070	7740	U 740	0	0 170	0	0	0	0	0	0	0
16 Length of route across pastureland	7,822		3,524		8,343		5,498		6,273	1,/10	4,749			6,777						
17 Length of route across mobile irrigated cropland or pastureland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Length of route parallel to existing pipeline ROW		4,192	•				5,445				3,689	1,799	1,811						12,870	
19 Number of pipeline crossings	30	23	23	22	31	36	34	26	26	26	26	28	28	28	60	54	84	73	75	44
20 Number of transmission line crossings	0	0	0	0	0	1	1	0	0	0	0	0	0	0	4	4	4	4	4	4
21 Number of U.S. and state highway crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
22 Number of F.M. road crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Number of local road crossings	1	2	2	2	1	3	2	2	2	2	2	2	3	3	6	5	5	6	5	2
24 Number of heliports within 5,000 feet of route centerline	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25 Number of private airstrips within 10,000 feet of route centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Number of FAA-listed airports[4] within 10,000 feet of route centerline having no runway more than 3,200 feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Number of FAA-listed airports[4] within 20,000 feet of route centerline having at least one runway more than 3,200 feet	2	2	2	2	2	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3
28 Number of commercial AM radio transmitters within 10,000 feet of route centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Number of FM radio transmitters, microwave relay stations, and other electronic installations etc. within 2,000 feet of	4		4	4	_		_	_	_	0	0			0	•					
route centerline	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2
30 Number of water wells within the ROW	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Number of oil and gas wells within the ROW	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AESTHETICS																				
32 Estimated length of route within foreground visual zone[5] of U.S. and state highways	13.934	10.782	9.789	8.033	15.598	8.624	6.299	7.382	7.240	7.002	7.002	6.542	10.254	9.950	17.283	15.675	15.675	17.178	15,570 1	4.082
33 Estimated length of route within foreground visual zone[5] of FM and county roads																			19,848 1	
34 Estimated length of route within foreground visual zone[5][6] of park and recreational areas[3]		6,008													0	0	0	0	0	0
ECOLOGY	0,000	0,000	0,000	0,000	0,0.0	1,010	1,010	0,002	.,	0,000	0,000	0,000	0,.00	_,===						
35 Length of route across upland woodlands	6 980	7,428	7 964	6.862	6 115	5 259	4 931	4 572	3 098	1 843	4 837	4 102	4 676	4 824	3 360	1 923	3 256	3 510	4,476	3 870
36 Length of route across bottomland/riparian woodlands		1,157				0	0	83	83	179	179	179	90	90	207			1,087		109
37 Length of route across Coastal Management Zone																			24,460 2	
38 Length of route across National Wetland Inventory mapped wetlands	154	845	845		0,303	0	0,343	0	244				244				241			566
39 Length of route across critical habitat of federally listed threatened or endangered species	0	0	043	022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Length of route across open water (lakes or ponds)	86	259	245	136	93	99	15	26	26	11	26	11	118	103	98	14	14	116	63	98
41 Number of stream and canal crossings	5	6	6	6	93	5	5	4	8	4	4	5	8	4	96 8	6	6	9	7	<u>90</u> 5
41 Number of stream and canal crossings 42 Length of route parallel to streams within 100 feet of route centerline	_	1,164	_		•		1,298	-	1,298		0		4,267		_	0	_	2,118	0	129
43 Length of route across 100-year floodplains	1,228	1,228	1,228	1,228	83	0	0	75	75	75	75	75	101	101	3,000	3,000	3,000	3,484	5,484	∠,ყეე
CULTURAL RESOURCES			•								_		_		0	$\overline{}$				
44 Number of cemeteries within 1,000 feet of the route centerline	0	0	U	U	0	0	0	0	0	0	U	0	0	0	0	0	0	0	0	0
Number of recorded historical and archeological sites crossed within ROW	0	0	Ü	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	0
Number of additional recorded historical and archeological sites within 1,000 feet of route centerline	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	1	1	0
47 Number of National Register of Historic Places listed or determined-eligible properties within ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of additional National of Register Historic Places listed or determined-eligible properties within 1,000 feet of	0	n	Ω	0	0	0	0	0	0	0	n	0	0	n	0	0	0	0	0	Ω
48 route centerline		J	,	_	_		Ŭ		Ŭ		3				J	=			_	
49 Length of route across areas of high archeological/historic site potential	1,073	1,073	1,073	1,073	24	24	24	0	0	0	0	0	0	0	7,503	7,503	7,503	9,215	9,215	3,869

^[1] Single-family and multi-family dwellings and related structures, mobile homes, apartment buildings, commercial structures, business structures, business structures, churches, hospitals, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a regular basis within 300 feet of the centerline of a transmission line project 230-kV or less.

NOTE: All length measurements in feet unless noted otherwise. All linear measurements were obtained from various aerial photograph sources: Nearmap 2022 and Google Earth with the exception of high probability areas for archaeological historical/resources which were measured using GIS software.

^[2] Apparent property boundaries created by existing roads, highway, or railroad ROW are not "double counted" in the length of ROW parallel to apparent property boundaries criteria. Property boundaries created by existing roads, highway, or railroad ROW are not "double counted" in the length of ROW parallel to apparent property boundaries criteria.

^[3] Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church.

^[4] As listed in the Southwest Region Airport Directory (FAA, 2022).

^[5] One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of Interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

^[6] One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

