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SOAH DOCKET NO. 473-21-0247

PUC DOCKET NO. 51023

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APPLICATION OF THE CITY OF	§	BEFORE THE STATE OFFICE
SAN ANTONIO TO AMEND ITS	§	
CERTIFICATE OF CONVENIENCE	§	OF
AND NECESSITY FOR THE	§	
SCENIC LOOP 138-KV TRANSMISSION	§	ADMINISTRATIVE HEARINGS
LINE IN BEXAR COUNTY	§	

**CPS ENERGY'S SUPPLEMENTAL RESPONSE TO BEXAR RANCH, L.P.'S FIRST REQUESTS FOR INFORMATION TO CPS ENERGY, QUESTIONS 1-1 AND 1-3**

COMES NOW the City of San Antonio, acting by and through the City Public Service Board (CPS Energy) and files this Supplemental Response to Bexar Ranch, L.P.'s (Bexar Ranch) First Requests for Information (RFI), Questions 1-1 and 1-3. This Response is timely filed. CPS Energy agrees and stipulates that all parties may treat these responses as if the answers were filed under oath.

Respectfully submitted,

/s/ Kirk D. Rasmussen

Kirk D. Rasmussen  
 State Bar No. 24013374  
 Craig R. Bennett  
 State Bar No. 00793325  
 Jackson Walker LLP  
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**ATTORNEYS FOR CPS ENERGY**

759

**CERTIFICATE OF SERVICE**

I certify that a copy of this document was served on all parties of record on this date via the Commission's Interchange in accordance with SOAH Order 3 in this proceeding.

/s/ Kirk D. Rasmussen

Kirk D. Rasmussen

**SOAH DOCKET NO. 473-21-0247  
PUC DOCKET NO. 51023**

<b>APPLICATION OF THE CITY OF</b>	<b>§</b>	<b>BEFORE THE STATE OFFICE</b>
<b>SAN ANTONIO TO AMEND ITS</b>	<b>§</b>	
<b>CERTIFICATE OF CONVENIENCE</b>	<b>§</b>	<b>OF</b>
<b>AND NECESSITY FOR THE</b>	<b>§</b>	
<b>SCENIC LOOP 138-KV TRANSMISSION</b>	<b>§</b>	<b>ADMINISTRATIVE HEARINGS</b>
<b>LINE IN BEXAR COUNTY</b>	<b>§</b>	

**CPS ENERGY’S SUPPLEMENTAL RESPONSE TO BEXAR RANCH, L.P.’S FIRST  
REQUESTS FOR INFORMATION TO CPS ENERGY, QUESTIONS 1-1 AND 1-3**

Bexar Ranch Question No. 1-1:

On page 6 of the rebuttal testimony of Mr. Adam R. Marin, P.E., on behalf of CPS Energy, Mr. Marin states, “other alternative routes comprised solely of segments included in the CPS Energy application (as amended) are viable route alternatives.” Given this testimony, and considering an alternative route named “Route Z-2” consisting of the following combination of segments included in the CPS Energy application (as amended), **Substation 7-54-20-36-42a-46-46b, please answer the following:**

- a. Admit or deny that Route Z-2 would be a viable route alternative.
- b. Admit or deny that Route Z-2 would be a constructible route alternative.
- c. Please provide updated versions of the following for Route Z-2: (a) Attachment 3 to the Amended Application; and (b) Attachment 1 to the Amended Application, Table 4-1, Environmental and Land Use Data for Route Evaluation (“Table 4-1”).

Supplemental Response No. 1-1c (April 26, 2021):

- c. See Supplemental Attachment.

Supplemental Attachment (April 26, 2021):

Supplemental Attachment Bexar Ranch 1-1a: Attachment 3 to the Amended Application w/ Route Z-2 added (REVISED 4-24-21), 3 pages, Scott Lyssy, April 24, 2021

Prepared By: Scott D. Lyssy	Title: Manager Civil Engineering
Sponsored By: Scott D. Lyssy	Title: Manager Civil Engineering

**SOAH DOCKET NO. 473-21-0247  
PUC DOCKET NO. 51023**

<b>APPLICATION OF THE CITY OF</b>	<b>§</b>	<b>BEFORE THE STATE OFFICE</b>
<b>SAN ANTONIO TO AMEND ITS</b>	<b>§</b>	
<b>CERTIFICATE OF CONVENIENCE</b>	<b>§</b>	<b>OF</b>
<b>AND NECESSITY FOR THE</b>	<b>§</b>	
<b>SCENIC LOOP 138-KV TRANSMISSION</b>	<b>§</b>	<b>ADMINISTRATIVE HEARINGS</b>
<b>LINE IN BEXAR COUNTY</b>	<b>§</b>	

**CPS ENERGY’S SUPPLEMENTAL RESPONSE TO BEXAR RANCH, L.P.’S FIRST  
REQUESTS FOR INFORMATION TO CPS ENERGY, QUESTIONS 1-1 AND 1-3**

Bexar Ranch Question No. 1-3:

Assuming a 100-foot right of way for its entire length, what is CPS Energy’s “Estimated Total Cost” for each of the following routes:

- a. Route Z-1; and
- b. Route Z-2.

Supplemental Response No. 1-3 (April 26, 2021):

- a. See Supplemental Attachment.
- b. See Supplemental Attachment.

Supplemental Attachment (April 26, 2021):

Supplemental Attachment Bexar Ranch 1-3: Estimated Cost Data for Routes Z-1 and Z-2 with an assumed 100 feet of right of way for the entire length (REVISED 4-24-21), 1 page, Scott Lyssy, April 24, 2021

Prepared By: Scott D. Lyssy	Title: Manager Civil Engineering
Sponsored By: Scott D. Lyssy	Title: Manager Civil Engineering

CPS Energy CCN Application Amendment  
(revised 12/23/2020)

Estimated Costs for Transmission Line and Substation Facilities (Z2 added for Bexar Ranch L.P. First RFI - Response No. 1-1c)

Table 1: Transmission and Substation Facilities Total Estimated Costs

Route	Total Length (miles)	Sub Site	**Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
A	6.66	1	\$54,695,384	\$7,783,840	\$702,240	\$2,088,350	\$15,331,639	\$3,250,060	\$13,199,493	\$11,217,966
B1	6.19	1	\$50,551,923	\$5,902,834	\$681,560	\$1,972,025	\$15,189,033	\$3,198,360	\$12,822,362	\$9,805,226
C1	5.77	1	\$47,373,301	\$6,793,477	\$663,080	\$1,868,075	\$13,867,819	\$3,152,160	\$11,925,364	\$8,275,750
D1	5.22	2	\$43,904,818	\$6,237,577	\$638,880	\$1,731,950	\$12,876,554	\$3,091,660	\$10,966,953	\$7,601,131
E	6.62	2	\$54,505,460	\$8,616,608	\$700,480	\$2,078,450	\$15,019,244	\$3,245,660	\$13,010,552	\$10,758,605
F1	5.66	2	\$49,658,757	\$6,417,969	\$658,240	\$1,840,850	\$14,386,259	\$3,140,060	\$12,250,563	\$9,968,015
G1	6.2	3	\$51,216,234	\$6,139,834	\$682,000	\$1,974,500	\$15,108,260	\$3,199,460	\$12,877,623	\$10,213,234
H	6.32	3	\$53,621,915	\$8,587,636	\$687,280	\$2,004,200	\$14,722,420	\$3,212,660	\$12,683,021	\$10,658,816
I1	5.03	3	\$42,877,497	\$6,601,539	\$630,520	\$1,684,925	\$12,368,953	\$3,070,760	\$10,527,670	\$7,266,482
J1	5.46	3	\$44,068,606	\$5,618,447	\$649,440	\$1,791,350	\$12,949,237	\$3,118,060	\$11,113,035	\$8,026,397
K	5.29	3	\$46,467,251	\$5,869,179	\$641,960	\$1,749,275	\$13,328,636	\$3,099,360	\$11,364,549	\$9,467,538
L	6.91	3	\$54,086,149	\$7,227,514	\$713,240	\$2,150,225	\$14,738,090	\$3,277,560	\$12,845,846	\$11,939,704
M1	5.85	4	\$46,044,320	\$6,318,803	\$666,600	\$1,887,875	\$13,430,851	\$3,160,960	\$11,567,273	\$8,192,689
N1	5.33	5	\$46,803,781	\$4,908,233	\$643,720	\$1,759,175	\$13,997,195	\$3,103,760	\$11,849,811	\$9,583,534
O	6.83	5	\$56,194,703	\$4,797,587	\$709,720	\$2,130,425	\$17,383,068	\$3,268,760	\$14,650,892	\$12,049,319
P	4.89	6	\$43,408,742	\$3,992,817	\$624,360	\$1,650,275	\$12,975,245	\$3,055,360	\$10,990,484	\$9,200,182
Q1	5.56	6	\$45,890,914	\$4,561,572	\$653,840	\$1,816,100	\$13,307,691	\$3,129,060	\$11,335,264	\$10,079,442
R1	4.76	6	\$43,522,858	\$4,248,347	\$618,640	\$1,618,100	\$13,186,368	\$3,041,060	\$11,142,125	\$8,789,289
S	6.73	6	\$55,327,170	\$4,250,341	\$705,320	\$2,105,675	\$17,071,712	\$3,257,760	\$14,581,618	\$12,140,676
T1	5.93	6	\$47,259,333	\$5,496,182	\$670,120	\$1,907,675	\$13,738,882	\$3,169,760	\$11,533,563	\$9,766,501
U1	6.36	6	\$50,562,536	\$4,907,467	\$689,040	\$2,014,100	\$14,593,806	\$3,217,060	\$12,618,154	\$11,384,462
V	6.6	6	\$54,169,034	\$3,783,721	\$699,600	\$2,073,500	\$17,045,497	\$3,243,460	\$14,223,883	\$11,908,522
W	6.25	6	\$52,869,828	\$4,137,701	\$684,200	\$1,986,875	\$16,482,368	\$3,204,960	\$13,857,732	\$11,378,174
X1	5.34	7	\$45,496,087	\$4,931,777	\$644,160	\$1,761,650	\$13,507,384	\$3,104,860	\$11,418,045	\$9,207,463
Y	5.23	7	\$42,723,887	\$5,900,333	\$639,320	\$1,734,425	\$11,952,819	\$3,092,760	\$10,416,847	\$8,170,347
Z1	4.53	7	\$38,474,771	\$4,174,144	\$608,520	\$1,561,175	\$11,523,763	\$3,015,760	\$9,891,014	\$7,000,360
Z2	4.46	7	\$37,638,580	\$4,180,854	\$605,440	\$1,543,850	\$11,162,205	\$3,008,060	\$9,656,454	\$6,801,560
AA1	4.82	7	\$38,291,572	\$4,261,602	\$621,280	\$1,632,950	\$11,064,175	\$3,047,660	\$9,595,667	\$7,334,761
BB	4.73	7	\$42,741,654	\$3,793,915	\$617,320	\$1,610,675	\$12,831,203	\$3,037,760	\$10,963,256	\$8,988,659
CC	5.23	7	\$43,897,472	\$4,455,112	\$639,320	\$1,734,425	\$12,792,717	\$3,092,760	\$11,012,099	\$9,246,400
DD	4.64	7	\$38,996,943	\$4,392,874	\$613,360	\$1,588,400	\$11,617,680	\$3,027,860	\$9,814,795	\$7,219,976
EE	4.99	7	\$39,757,435	\$4,393,897	\$628,760	\$1,675,025	\$11,566,090	\$3,066,360	\$9,886,810	\$7,764,084

\*\*Estimated Costs include a 10% Contingency for unknown project costs not evident at the time these estimates were created.

Table 2: Transmission and Substation Facilities Total Estimated Costs (Sorted Least to Most Expensive)

Route	Total Length (miles)	Sub Site	**Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
Z2	4.46	7	\$37,638,580	\$4,180,854	\$605,440	\$1,543,850	\$11,162,205	\$3,008,060	\$9,656,454	\$6,801,560
AA1	4.82	7	\$38,291,572	\$4,261,602	\$621,280	\$1,632,950	\$11,064,175	\$3,047,660	\$9,595,667	\$7,334,761
Z1	4.53	7	\$38,474,771	\$4,174,144	\$608,520	\$1,561,175	\$11,523,763	\$3,015,760	\$9,891,014	\$7,000,360
DD	4.64	7	\$38,996,943	\$4,392,874	\$613,360	\$1,588,400	\$11,617,680	\$3,027,860	\$9,814,795	\$7,219,976
EE	4.99	7	\$39,757,435	\$4,393,897	\$628,760	\$1,675,025	\$11,566,090	\$3,066,360	\$9,886,810	\$7,764,084
Y	5.23	7	\$42,723,887	\$5,900,333	\$639,320	\$1,734,425	\$11,952,819	\$3,092,760	\$10,416,847	\$8,170,347
BB	4.73	7	\$42,741,654	\$3,793,915	\$617,320	\$1,610,675	\$12,831,203	\$3,037,760	\$10,963,256	\$8,988,659
I1	5.03	3	\$42,877,497	\$6,601,539	\$630,520	\$1,684,925	\$12,368,953	\$3,070,760	\$10,527,670	\$7,266,482
P	4.89	6	\$43,408,742	\$3,992,817	\$624,360	\$1,650,275	\$12,975,245	\$3,055,360	\$10,990,484	\$9,200,182
R1	4.76	6	\$43,522,858	\$4,248,347	\$618,640	\$1,618,100	\$13,186,368	\$3,041,060	\$11,142,125	\$8,789,289
CC	5.23	7	\$43,897,472	\$4,455,112	\$639,320	\$1,734,425	\$12,792,717	\$3,092,760	\$11,012,099	\$9,246,400
D1	5.22	2	\$43,904,818	\$6,237,577	\$638,880	\$1,731,950	\$12,876,554	\$3,091,660	\$10,966,953	\$7,601,131
J1	5.46	3	\$44,068,606	\$5,618,447	\$649,440	\$1,791,350	\$12,949,237	\$3,118,060	\$11,113,035	\$8,026,397
X1	5.34	7	\$45,496,087	\$4,931,777	\$644,160	\$1,761,650	\$13,507,384	\$3,104,860	\$11,418,045	\$9,207,463
Q1	5.56	6	\$45,890,914	\$4,561,572	\$653,840	\$1,816,100	\$13,307,691	\$3,129,060	\$11,335,264	\$10,079,442
M1	5.85	4	\$46,044,320	\$6,318,803	\$666,600	\$1,887,875	\$13,430,851	\$3,160,960	\$11,567,273	\$8,192,689
K	5.29	3	\$46,467,251	\$5,869,179	\$641,960	\$1,749,275	\$13,328,636	\$3,099,360	\$11,364,549	\$9,467,538
N1	5.33	5	\$46,803,781	\$4,908,233	\$643,720	\$1,759,175	\$13,997,195	\$3,103,760	\$11,849,811	\$9,583,534
T1	5.93	6	\$47,259,333	\$5,496,182	\$670,120	\$1,907,675	\$13,738,882	\$3,169,760	\$11,533,563	\$9,766,501
C1	5.77	1	\$47,373,301	\$6,793,477	\$663,080	\$1,868,075	\$13,867,819	\$3,152,160	\$11,925,364	\$8,275,750
F1	5.66	2	\$49,658,757	\$6,417,969	\$658,240	\$1,840,850	\$14,386,259	\$3,140,060	\$12,250,563	\$9,968,015
B1	6.19	1	\$50,551,923	\$5,902,834	\$681,560	\$1,972,025	\$15,189,033	\$3,198,360	\$12,822,362	\$9,805,226
U1	6.36	6	\$50,562,536	\$4,907,467	\$689,040	\$2,014,100	\$14,593,806	\$3,217,060	\$12,618,154	\$11,384,462
G1	6.2	3	\$51,216,234	\$6,139,834	\$682,000	\$1,974,500	\$15,108,260	\$3,199,460	\$12,877,623	\$10,213,234
W	6.25	6	\$52,869,828	\$4,137,701	\$684,200	\$1,986,875	\$16,482,368	\$3,204,960	\$13,857,732	\$11,378,174
H	6.32	3	\$53,621,915	\$8,587,636	\$687,280	\$2,004,200	\$14,722,420	\$3,212,660	\$12,683,021	\$10,658,816
L	6.91	3	\$54,086,149	\$7,227,514	\$713,240	\$2,150,225	\$14,738,090	\$3,277,560	\$12,845,846	\$11,939,704
V	6.6	6	\$54,169,034	\$3,783,721	\$699,600	\$2,073,500	\$17,045,497	\$3,243,460	\$14,223,883	\$11,908,522
E	6.62	2	\$54,505,460	\$8,616,608	\$700,480	\$2,078,450	\$15,019,244	\$3,245,660	\$13,010,552	\$10,758,605
A	6.66	1	\$54,695,384	\$7,783,840	\$702,240	\$2,088,350	\$15,331,639	\$3,250,060	\$13,199,493	\$11,217,966
S	6.73	6	\$55,327,170	\$4,250,341	\$705,320	\$2,105,675	\$17,071,712	\$3,257,760	\$14,581,618	\$12,140,676
O	6.83	5	\$56,194,703	\$4,797,587	\$709,720	\$2,130,425	\$17,383,068	\$3,268,760	\$14,650,892	\$12,049,319

Table 3: Transmission Facilities Total Estimated Costs

Route	Total Length (miles)	Sub Site	Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
A	6.66	1	\$39,479,733	\$6,205,475	\$266,400	\$1,498,500	\$10,375,854	\$666,000	\$9,249,539	\$11,217,966
B1	6.19	1	\$35,821,831	\$4,604,350	\$247,600	\$1,392,750	\$10,246,212	\$619,000	\$8,906,692	\$9,805,226
C1	5.77	1	\$32,899,624	\$5,381,475	\$230,800	\$1,298,250	\$9,045,109	\$577,000	\$8,091,240	\$8,275,750
D1	5.22	2	\$29,130,346	\$4,260,000	\$208,800	\$1,174,500	\$8,143,958	\$522,000	\$7,219,957	\$7,601,131
E	6.62	2	\$38,654,663	\$6,310,125	\$264,800	\$1,489,500	\$10,091,858	\$662,000	\$9,077,775	\$10,758,605
F1	5.66	2	\$34,248,570	\$4,311,363	\$226,400	\$1,273,500	\$9,516,417	\$566,000	\$8,386,875	\$9,968,015
G1	6.2	3	\$36,200,846	\$4,594,900	\$248,000	\$1,395,000	\$10,172,782	\$620,000	\$8,956,930	\$10,213,234
H	6.32	3	\$37,742,578	\$6,174,925	\$252,800	\$1,422,000	\$9,822,018	\$632,000	\$8,780,019	\$10,658,816
I1	5.03	3	\$28,079,256	\$4,473,713	\$201,200	\$1,131,750	\$7,682,502	\$503,000	\$6,820,609	\$7,266,482
J1	5.46	3	\$29,661,502	\$4,079,413	\$218,400	\$1,228,500	\$8,210,034	\$546,000	\$7,352,759	\$8,026,397
K	5.29	3	\$31,238,339	\$3,703,600	\$211,600	\$1,190,250	\$8,554,942	\$529,000	\$7,581,408	\$9,467,538
L	6.91	3	\$38,164,609	\$4,938,450	\$276,400	\$1,554,750	\$9,836,263	\$691,000	\$8,928,042	\$11,939,704
M1	5.85	4	\$31,931,306	\$5,189,800	\$234,000	\$1,316,250	\$8,647,864	\$585,000	\$7,765,702	\$8,192,689
N1	5.33	5	\$32,774,012	\$4,059,750	\$213,200	\$1,199,250	\$9,162,723	\$533,000	\$8,022,555	\$9,583,534
O	6.83	5	\$41,311,213	\$3,959,163	\$273,200	\$1,536,750	\$12,240,789	\$683,000	\$10,568,993	\$12,049,319
P	4.89	6	\$29,655,409	\$3,195,350	\$195,600	\$1,100,250	\$8,233,678	\$489,000	\$7,241,349	\$9,200,182
Q1	5.56	6	\$31,911,929	\$3,712,400	\$222,400	\$1,251,000	\$8,535,901	\$556,000	\$7,554,785	\$10,079,442
R1	4.76	6	\$29,759,151	\$3,427,650	\$190,400	\$1,071,000	\$8,425,608	\$476,000	\$7,379,204	\$8,789,289
S	6.73	6	\$40,490,343	\$3,429,463	\$269,200	\$1,514,250	\$11,957,738	\$673,000	\$10,506,016	\$12,140,676
T1	5.93	6	\$33,268,576	\$4,674,675	\$237,200	\$1,334,250	\$8,927,893	\$593,000	\$7,735,057	\$9,766,501
U1	6.36	6	\$36,158,857	\$4,026,850	\$254,400	\$1,431,000	\$9,705,097	\$636,000	\$8,721,049	\$11,384,462
V	6.6	6	\$39,437,492	\$3,005,263	\$264,000	\$1,485,000	\$11,933,906	\$660,000	\$10,180,802	\$11,908,522
W	6.25	6	\$38,256,396	\$3,327,063	\$250,000	\$1,406,250	\$11,421,971	\$625,000	\$9,847,938	\$11,378,174
X1	5.34	7	\$31,423,745	\$3,919,700	\$213,600	\$1,201,500	\$8,717,440	\$534,000	\$7,630,041	\$9,207,463
Y	5.23	7	\$28,852,833	\$4,749,475	\$209,200	\$1,176,750	\$7,304,200	\$523,000	\$6,719,861	\$8,170,347
Z1	4.53	7	\$24,986,251	\$3,176,463	\$181,200	\$1,019,250	\$6,914,148	\$453,000	\$6,241,831	\$7,000,360
Z2	4.46	7	\$24,226,077	\$3,182,563	\$178,400	\$1,003,500	\$6,585,459	\$446,000	\$6,028,595	\$6,801,560
AA1	4.82	7	\$25,176,699	\$3,612,963	\$192,800	\$1,084,500	\$6,496,341	\$482,000	\$5,973,334	\$7,334,761
BB	4.73	7	\$28,856,185	\$2,821,750	\$189,200	\$1,064,250	\$8,102,730	\$473,000	\$7,216,596	\$8,988,659
CC	5.23	7	\$29,906,929	\$3,422,838	\$209,200	\$1,176,750	\$8,067,743	\$523,000	\$7,260,999	\$9,246,400
DD	4.64	7	\$25,528,232	\$3,442,588	\$185,600	\$1,044,000	\$6,999,527	\$464,000	\$6,172,541	\$7,219,976
EE	4.99	7	\$26,239,758	\$3,463,688	\$199,600	\$1,122,750	\$6,952,628	\$499,000	\$6,238,009	\$7,764,084

Table 4: Substation Facilities Total Estimated Costs

Sub Site	Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)
1	\$10,243,343.00	\$ 870,743	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
2	\$10,895,754.79	\$ 1,523,155	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
3	\$11,004,617.00	\$ 1,632,017	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
4	\$10,039,796.54	\$ 667,197	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
5	\$9,774,880.00	\$ 402,280	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
6	\$9,807,084.00	\$ 434,484	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
7	\$9,999,864.00	\$ 627,264	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00



CPS Energy CCN Application Amendment  
(revised 12/23/2020)

Estimated Costs for Transmission Line and Substation Facilities (Z2 added for Bexar Ranch L P. First RFI) (REVISED 4-24-21)

Table 1: Transmission and Substation Facilities Total Estimated Costs

Route	Total Length (miles)	Sub Site	**Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
Z1	4.53	7	<b>\$38,798,708</b>	\$4,498,080	\$608,520	\$1,561,175	\$11,523,763	\$3,015,760	\$9,891,014	\$7,000,360
Z2	4.46	7	<b>\$37,962,516</b>	\$4,504,790	\$605,440	\$1,543,850	\$11,162,205	\$3,008,060	\$9,656,454	\$6,801,560

\*\*Estimated Costs include a 10% Contingency for unknown project costs not evident at the time these estimates were created

Note: In this table, cost for right of way assumes 100 feet adjacent to all roadways, per the RFI request