Control Number: 49302

Item Number: 8

Addendum StartPage: 0

PUC DOCKET NO. 49302

APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY FOR A 138-KV TRANSMISSION LINE IN LOVING COUNTY (KYLE RANCH – QUARRY FIELD)	§	**PUBLIC UTILITY COMMISSION OF TEXAS**

AFFIDAVIT ATTESTING TO THE PROVISION OF NEWSPAPER NOTICE

STATE OF TEXAS §

COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, personally appeared W. Chris Reily, known to me to be the person whose name is subscribed below who, upon oath deposed and stated as follows:

1. My name is W. Chris Reily. My business address is 1616 Woodall Rodgers Fwy. Suite 6A-012, Dallas, Texas, 75202. I am over eighteen (18) years of age and have never been convicted of a felony. I have personal knowledge of the facts contained herein, and they are true and correct to the best of my knowledge.

2. I am currently employed as Regulatory Project Manager, External Affairs, at Oncor Electric Delivery Company LLC ("Oncor"), and I am authorized to make this Affidavit on behalf of Oncor.

3. Pursuant to 16 Tex. Admin. Code § 22.52(a)(1), Oncor published notice of its application in this proceeding, once in the week following the application filing, in a newspaper having general circulation in Loving County, where the certificate of convenience and necessity is being requested, as follows: *The Winkler County News* on April 4, 2019.

Publishers' affidavit attesting to the publication of this notice is attached to this Affidavit as Attachment No. 1(a). A copy of the newspaper tear sheet is attached to this Affidavit as Attachment No. 1(b).

4. A representative copy of the notice published in this newspaper, including link table, route descriptions, and maps, is attached to this Affidavit as Attachment No. 2.

W. Chris Reily

SUBSCRIBED AND SWORN TO before me on this the 18 th day of April, 2019, to certify which witness my official hand and seal of office.

Notary Public, State of Texas

My Commission expires:

STEPHANIE LEE TENORIO
Notary Public, State of Texas
Comm. Expires 07-07-2020
Notary ID 12658305-3

2

CERTIFICATE OF SERVICE

It is hereby certified that a copy of the foregoing has been hand delivered, or sent via overnight delivery or first class United States mail, postage prepaid, to all parties of record in this proceeding, on this the 22nd day of April, 2019.

W. Chris Reily

3

ROP AFFIDAVIT

TEXAS PRESS SERVICE

April 04, 2019

Advertiser Name: Oncor Electric Delivery Company **Order #: 19041OO0**

ATTN: Diane Long
Kermit, The Winkler County News
PO Box A
Kermit, Texas 79745-6769

V: 432-586-2581 F: 1-432-586-2562 Email: gfreepress@sbcglobal.net

Kermit, The Winkler County News (Kermit, TX)

Run Date	Ad Size	Caption / Position / Special Instructions	Section and Page information
Thu 04/04/19	4.00 X 11.50	Caption: RIVERTON	
Thu 04/04/19	4.00 X 11.50	Caption: QUARRY FIELD	

AFFIDAVIT OF PUBLICATION
STATE OF TEXAS
COUNTY OF Winkler

Before me, a Notary Public, personally appeared
Katie Thomas (name),
who, after being by me duly sworn upon oath, deposes and says:
I am the Office Manager (title) for the
Winkler County News (newspaper), a newspaper of general circulation.
The accompanying printed matter represented a true and correct copy(ies) of the above-referenced material published in the listed newspaper on the date (s) indicated.
I hereby swear and affirm that the above-mentioned Texas newspaper has general circulation in the following Texas county(ies): Winkler / Loving
I further swear and affirm that I have personal knowledge of all matters stated herein and that the foregoing statements are true and correct.
Signed: Katie Thomas

SWORN TO AND SUBSCRIBED BEFORE ME,
this 5 day of April A.D., 2019.
Notary Public: Betty Macon
County of Winkler
Commission Expires: 9/23/2020
Please EMAIL completed affidavit to dshaw@texaspress.com or FAX to 512-477-6759.

TEXAS PRESS SERVICE INC.
Affiliated with Texas Press Association
8800 Business Park Drive #100
Austin, Texas 78759
Phone: 512-477-6755 Fax: 512-477-6759

BETTY MACON
NOTARY PUBLIC - STATE OF TEXAS
ID # 13083004-7
My Commission Expires 9/23/2020

ATTACHMENT NO. 1 (a)

Application of Oncor Electric Delivery Company LLC to Amend its Certificate of Convenience and Necessity for a Proposed 138-kV Transmission Line in Loving County, Texas
(Kyle Ranch – Quarry Field CCN)

PUBLIC UTILITY COMMISSION OF TEXAS (PUC) DOCKET NO. 49302

This notice is provided to notify you of the intent of Oncor Electric Delivery Company LLC ("Oncor") to construct a new 138 kilovolt ("kV") electric transmission line to be built on double-circuit steel or concrete monopole structures, with one circuit initially installed, between the proposed Kyle Ranch Substation in Loving County, located five miles southeast of Farm to Market ("FM") 652 and County Road ("CR") 300, and the proposed Quarry Field Switch, located approximately six miles north of the community of Mentone, Texas, also in Loving County. The proposed transmission line will be approximately 12.4 – 20.5 miles in length, depending upon the route approved by the Public Utility Commission of Texas ("PUC"). The estimated cost of this project is $16,832,000 but may vary depending upon the route approved by the PUC.

Persons with questions about the transmission line may contact Chris Reily of Oncor at (214) 486-4717.
A detailed routing map may be reviewed at the following location:

Display Location	Address
Loving County Courthouse Annex	100 Bell St., Mentone, TX 79754

All routes and route segments included in this notice are available for selection and approval by the Public Utility Commission of Texas.

Persons who are affected by the proposed transmission line and wish to intervene in the docket or comment on the applicant's application should mail the original and 10 copies of their requests to intervene or their comments to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326

Persons who wish to intervene in the docket must also mail a copy of their request for intervention to all parties in the docket and all persons that have pending motions to intervene, at or before the time the request for intervention is mailed to the PUC. ***The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene in the docket. It is important for an affected person to intervene because the utility is not obligated to keep affected persons informed of the PUC's proceedings and cannot predict which route may or may not be approved by the PUC.***

The deadline for intervention in the docket is **May 13, 2019**, and the PUC should receive a letter from you requesting intervention by that date.

The PUC has a brochure titled "Landowners and Transmission Line Cases at the PUC." Copies of the brochure are available from Chris Reily of Oncor at (214) 486-4717 or may be downloaded from the PUC's website at www.puc.state.tx.us. To obtain additional information about this docket, you may contact the PUC's Customer Assistance Hotline at (512) 936-7120 or (888) 782-8477. Hearing- and speech-impaired individuals with text telephones (TTY) may contact the PUC's Customer Assistance Hotline at (512) 936-7136 or toll free at (800) 735-2989. In addition to the intervention deadline, other important deadlines may already exist that affect your participation in this docket. You should review the orders and other filings already made in the docket.

TABLE 1. COMPOSITION OF ROUTES FILED IN THE CCN APPLICATION KYLE RANCH-QUARRY FIELD 138 kV TRANSMISSION LINE PROJECT

Route	Link Sequence	Miles
3	A-B1-C2-D3-D4-G3-I3-M-N2-Z	14.4
7	A-B1-C1-D2-F2-F3-G3-I3-M-N2-Z	14.4
9	A-B1-C1-D2-F2-G2-I2-I3-M-N2-Z	14.1
11	A-B1-C1-D2-F2-G2-I2-L-N1-Z	12.4
12	A-B1-C1-D2-F2-G2-I2-L-K2-N2-Z	12.6
13	A-B1-C1-D2-F2-G2-I2-J2-M-N2-Z	14.0
19	A-B1-C1-D1-F1-F2-G2-I2-L-N1-Z	15.0
25	A-B1-C1-D1-G1-H1-I2-L-N1-Z	15.5
29	A-B1-C1-D1-G1-I1-K1-N1-Z	15.1
30	A-B1-C1-D1-G1-I1-K1-K2-N2-Z	15.3
31	A-B1-C1-D1-G1-I1-J1-L-N1-Z	15.0
32	A-B1-C1-D1-G1-I1-J1-L-K2-N2-Z	15.1
35	A-B2-C3-G4-M-N2-Z	20.3
37	A-B2-D3-D4-G3-I3-M-N2-Z	14.3
39	A-B2-D3-E-G4-M-N2-Z	20.5

Link A
From the Kyle Ranch Substation, **Link A** proceeds in an east/southeasterly direction for approximately 500 feet to an angle point. From this angle point, **Link A** proceeds in a southerly direction for approximately 800 feet to the intersection of **Links A, B1, and B2**.

Link B1
From the intersection of **Links A, B1, and B2**, **Link B1** proceeds in a westerly direction for approximately 700 feet to an angle point. From this angle point, **Link B1** proceeds in a south/southwesterly direction for approximately 600 feet to the intersection of **Links B1, C1, and C2**.

Link B2
From the intersection of **Links A, B1, and B2**, **Link B2** proceeds in an easterly direction for approximately 18,000 feet to an angle point. This segment of **Link B2** crosses County Road (CR) 300, six natural gas pipelines and two crude oil pipelines. From this angle point, **Link B2** proceeds in a southerly direction for approximately 3,700 feet to the intersection of **Links B2, C2, C3, and D3**.

Link C1
From the intersection of **Links B1, C1, and C2**, **Link C1** proceeds in a southwesterly direction for approximately 1,800 feet to the intersection of **Links C1, D1, and D2**.

Link C2
From the intersection of **Links B1, C1, and C2**, **Link C2** proceeds in a southerly direction for approximately 1,200 feet to an angle point. From this angle point, **Link C2** proceeds in an easterly direction for approximately 2,400 feet to an angle point. This segment of **Link C2** crosses two natural gas pipelines. From this angle point, **Link C2** proceeds in a southeasterly direction for approximately 2,400 feet to an angle point. This segment of **Link C2** crosses a natural gas pipeline. From this angle point, **Link C2** proceeds in an easterly direction for approximately 15,200 feet to the intersection of **Links B2, C2, C3, and D3**. This segment of **Link C2** crosses CR 300, three natural gas pipelines and two crude oil pipelines.

Link C3
From the intersection of **Links B2, C2, C3, and D3**, **Link C3** proceeds in an easterly direction for approximately 18,700 feet to an angle point. From this angle point **Link C3** proceeds in a southeasterly direction for approximately 1,300 feet to an angle point. From this angle point, this segment of **Link C3** proceeds in a southerly direction for approximately 4,300 feet to the intersection of **Links C3, E, and G4**.

Link D1
From the intersection of **Links C1, D1, and D2, Link D1** proceeds in a westerly direction for approximately 5,800 feet to an angle point This segment of **Link D1** crosses a crude oil pipelme and a natural gas pipeline From this angle point **Link D1** proceeds in a southerly direction for approximately 8,800 feet to an angle point This segment of **Link D1** crosses two natural gas pipelines and a crude oil pipeline From this angle point, **Link D1** proceeds in a south/southeasterly direction for approximately 3,000 feet to the intersection of **Links D1, F1,** and **G1.**

Link D2
From the intersection of **Links C1, D1,** and **D2, Link D2** proceeds in a southerly direction for approximately 2,200 feet to an angle point From this angle point, **Link D2** proceeds in a south/southeasterly direction for approximately 600 feet The segment of **Link D2** crosses a natural gas pipeline From this angle point, **Link D2** proceeds in a southerly direction for approximately 3,200 feet This segment of **Link D2** crosses two natural gas pipelines From this angle point, **Link D2** proceeds in a southeasterly direction for approximately 4,500 feet to an angle point This segment of **Link D2** crosses two crude oil pipelines and a natural gas pipeline From this angle point **Link D2** proceeds in a southerly direction for approximately 1,200 feet to an angle point This segment of **Link D2** crosses a natural gas pipeline From this angle point, **Link D2** proceeds in a southeasterly direction for approximately 5,000 feet to the intersection of **Links D2, F1,** and **F2**

Link D3
From the intersection of **Links B2, C 2, C3,** and **D3, Link D3** proceeds in a southerly direction for approximately 5,400 feet to the intersection of **Links D3, D4,** and **E**

Link D4
From the intersection of **Links D3, D4,** and **E, Link D4** proceeds in a southeasterly direction for approximately 4,500 feet to an angle point From this angle point, **Link D4** proceeds in a southerly direction for approximately 2 700 feet to the intersection of **Links D4, F3,** and **G3**

Link E
From the intersection of **Links D3, D4,** and **E, Link E** proceeds in an easterly direction for approximately 19,700 feet to the intersection of **Links C3, E,** and **G4**

Link F1
From the intersection of **Links D1, F1,** and **G1, Link F1** proceeds in an easterly direction for approximately 12,900 feet to the intersection of **Links D2, F1,** and **F2. Link F1** crosses three natural gas pipelines and two crude oil pipelines.

Link F2
From the intersection of **Links D2, F1,** and **F2, Link F2** proceeds in a southeasterly direction for approximately 1,100 feet to the intersection of **Links F2, F3,** and **G2**

Link F3
From the intersection of **Links F2, F3,** and **G2 Link F3** proceeds in an easterly direction for approximately 13,900 feet to the intersection of **Links D4, F3,** and **G3 Link F3** crosses CR 300, two natural gas pipelines, and two crude oil pipelines.

Link G1
From the intersection of **Links D1, F1,** and **G1, Link G1** proceeds in a southerly direction for approximately 9 200 feet to the intersection of **Links G1, H1,** and **I1 Link G1** crosses a natural gas pipeline

Link G2
From the intersection of **Links F2, F3,** and **G2, Link G2** proceeds in a south/southeasterly direction for approximately 4,900 feet to an angle point This segment of **Link G2** crosses a natural gas pipeline From this angle point **Link G2** proceeds in a southerly direction for approximately 4,300 feet to the intersection of **Links G2, H1, H2,** and **I2**

Link G3
From the intersection of **Links D4, F3,** and **G3, Link G3** proceeds in a southerly direction for approximately 8,600 feet to the intersection of **Links G3, H2,** and **I3**

Link G4
From the intersection of **Links C3, E,** and **G4, Link G4** proceeds in a southerly direction for approximately 21,900 feet to an angle point This segment of **Link G4** crosses two natural gas pipelines From this angle point **Link G4** proceeds in a west/southwesterly direction for approximately 8,300 feet to an angle point. From this angle point, **Link G4** proceeds in a westerly direction for approximately 10,100 feet to the intersection of **Links G4, I3, J2,** and **M.**

Link H1
From the intersection of **Links G1, H1,** and **I1, Link H1** proceeds in an easterly direction for approximately 16,200 feet to the intersection of **Links G2, H1, H2,** and **I2 Link H1** crosses two crude oil pipelines and three natural gas pipelines

Link H2
From the intersection of **Links of G2, H1, H2,** and **I2. Link H2** proceeds in an easterly direction for approximately 11,500 feet to the intersection of **Links G3, H2,** and **I3. Link H2** crosses CR 300 two crude oil pipelines, and a natural gas pipeline

Link I1
From the intersection of **Links G1, H1,** and **I1, Link I1** proceeds in a southerly direction for approximately 1 100 feet to an angle point From this angle point, **Link I1** proceeds in a southwesterly direction for approximately 1,200 feet to an angle point From this angle point **Link I1** proceeds in a southerly direction for approximately 1 200 feet to an angle point From this angle point, **Link I1** proceeds in a south/southeasterly direction for approximately 9,200 feet to the intersection of **Links I1, J1,** and **K1.**

Link I2
From the intersection of **Links G2, H1, H2,** and **I2, Link I2** proceeds in a southerly direction for approximately 11,200 feet to the intersection of **Links I2, J1, J2** and **L Link I2** crosses two natural gas pipelines

Link I3
From the intersection of **Links G3, H2,** and **I3, Link I3** proceeds in a southerly direction for approximately 2,300 feet to an angle point From this angle point, **Link I3** proceeds in a south southwesterly direction for approximately 1,100 feet to an angle point. From this angle point, **Link I3** proceeds in a southerly direction for approximately 2,400 feet to an angle point From this angle point, **Link I3** proceeds in a south/southeasterly direction for approximately 1,800 feet to an angle point From this angle point, **Link I3** proceeds in a southerly direction for approximately 3,900 feet to the intersection of **Links G4, I3, J2,** and **M**

Link J1
From the intersection of **Links I1, J1,** and **K1, Link J1** proceeds in an easterly direction for approximately 12,300 feet to the intersection of **Links I2, J1, J2,** and **L. Link J1** crosses two crude oil pipelines and a natural gas pipeline

Link J2
From the intersection of **Links I2, J1, J2,** and **L, Link J2** proceeds in an easterly direction for approximately 11,400 feet to the intersection of **Links G4, I3, J2,** and **M Link J2** crosses three natural gas pipelines, two crude oil pipelines, and C R 300.

Link K1
From the intersection of **Links I1, J1,** and **K1, Link K1** proceeds in a south/southeasterly direction for approximately 12,600 feet to an angle point This segment of **Link K1** crosses a crude oil pipeline and a natural gas pipeline. From this angle point, **Link K1** proceeds in an easterly direction for approximately 14,700 feet to the intersection of **Links K1, K2, L,** and **N1** This segment of **Link K1** crosses two natural gas pipelines and three crude oil pipelines

Link K2 (Bi-directional Link)
From the intersection of **Links K1, K2, L,** and **N1, Link K2** proceeds in an easterly direction for approximately 2,400 feet to the intersection of **Links K2, M,** and **N2.**

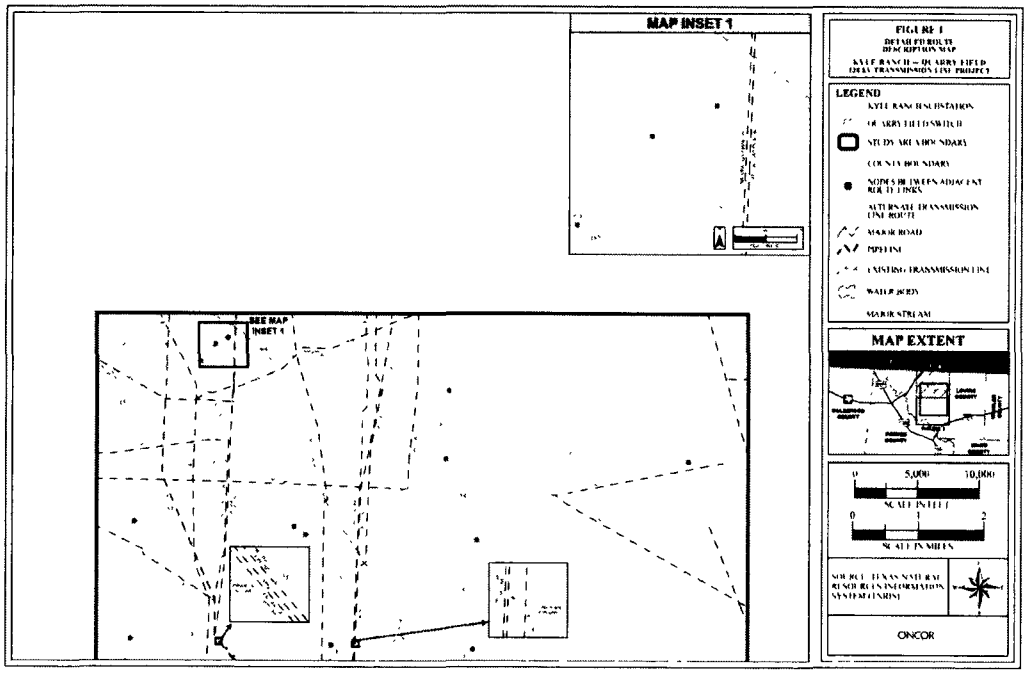
Link L
From the intersection of **Links I2, J1, J2,** and **L, Link L** proceeds in a southeasterly direction for approximately 4,400 feet to an angle point. This segment of **Link L** crosses two crude oil pipelines and a natural gas pipeline From this angle point, **Link L** proceeds in a south/southeasterly direction for approximately 6,600 feet to an angle point This segment of **Link L** crosses a natural gas pipeline From this angle point, **Link L** proceeds in a southeasterly direction for approximately 3,200 feet to the intersection of **Links K1, K2, L,** and **N1**

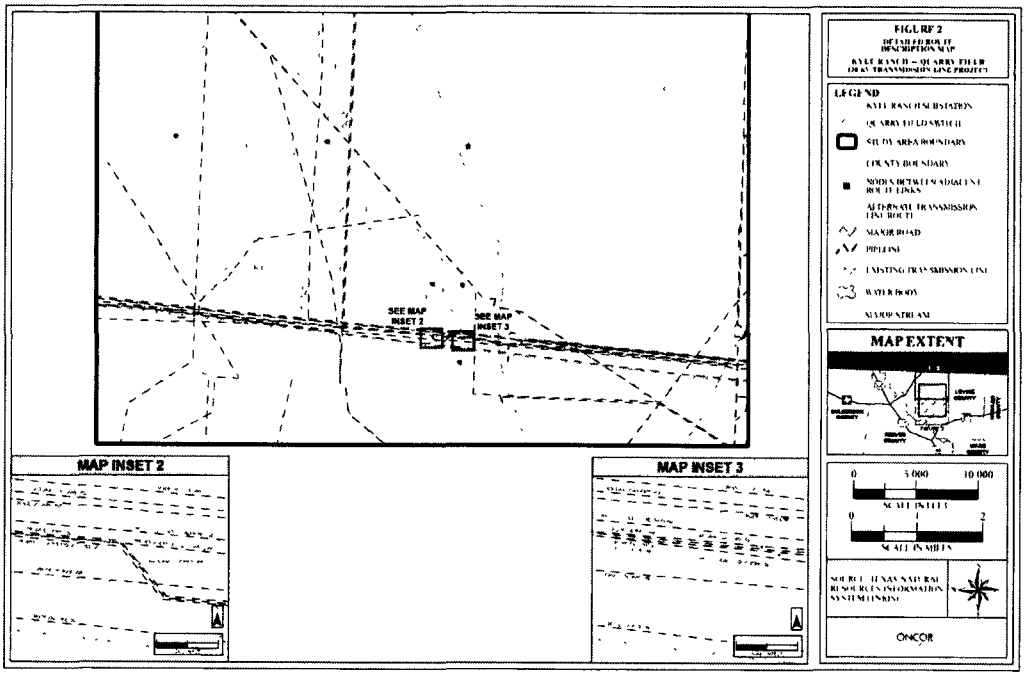
Link M
From the intersection of **Links G4, I3, J2,** and **M, Link M** proceeds in a southerly direction for approximately 600 feet to an angle point From this angle point, **Link M** proceeds in a southeasterly direction for approximately 4,600 feet to an angle point From this angle point, **Link M** proceeds in a southwesterly direction for approximately 3,800 feet to an angle point This segment of **Link M** crosses C R 300. From this angle point **Link M** proceeds in a southerly direction for approximately 3,800 feet to the intersection of **Links K2, M,** and **N2** This segment of **Link M** crosses two natural gas pipelines.

Link N1
From the intersection of **Links K1, K2, L**, and **N1**, **Link N1** proceeds in a southerly direction for approximately 5,300 feet to an angle point. This segment of **Link N1** crosses an existing transmission line, five crude oil pipelines, two natural gas pipelines, and three highly volatile liquid pipelines. From this angle point, **Link N1** proceeds in an east/southeasterly direction for approximately 2,600 feet to the intersection of **Links N1, N2** and **Z**.

Link N2
From the intersection of **Links K2, M**, and **N2**, **Link N2** proceeds in a southerly direction for approximately 6,100 feet to the intersection of **Links N1, N2**, and **Z**. **Link N2** crosses an existing transmission line, five crude oil pipelines, two natural gas pipelines, and three highly volatile liquid pipelines.

Link Z
From the intersection of **Links N1, N2**, and **Z**, **Link Z** proceeds in a southerly direction for approximately 800 feet to Quarry Field Switch.





Application of Oncor Electric Delivery Company LLC to Amend its Certificate of Convenience and Necessity for a Proposed 138-kV Transmission Line in Loving County, Texas (Kyle Ranch – Quarry Field CCN)

PUBLIC UTILITY COMMISSION OF TEXAS (PUC) DOCKET NO. 49302

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Enclosures:

- Route Link Descriptions and Maps

TABLE 1. COMPOSITION OF ROUTES FILED IN THE CCN APPLICATION KYLE RANCH — QUARRY FIELD 138 kV TRANSMISSION LINE PROJECT

Route	Link Sequence	Miles
3	A-B1-C2-D3-D4-G3-I3-M-N2-Z	14.4
7	A-B1-C1-D2-F2-F3-G3-I3-M-N2-Z	14.4
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11	A-B1-C1-D2-F2-G2-I2-L-N1-Z	12.4
12	A-B1-C1-D2-F2-G2-I2-L-K2-N2-Z	12.6
13	A-B1-C1-D2-F2-G2-I2-J2-M-N2-Z	14.0
19	A-B1-C1-D1-F1-F2-G2-I2-L-N1-Z	15.0
25	A-B1-C1-D1-G1-H1-I2-L-N1-Z	15.5
29	A-B1-C1-D1-G1-I1-K1-N1-Z	15.1
30	A-B1-C1-D1-G1-I1-K1-K2-N2-Z	15.3
31	A-B1-C1-D1-G1-I1-J1-L-N1-Z	15.0
32	A-B1-C1-D1-G1-I1-J1-L-K2-N2-Z	15.1
35	A-B2-C3-G4-M-N2-Z	20.3
37	A-B2-D3-D4-G3-I3-M-N2-Z	14.3
39	A-B2-D3-E-G4-M-N2-Z	20.5

Link A

From the Kyle Ranch Substation, **Link A** proceeds in an east/southeasterly direction for approximately 500 feet to an angle point. From this angle point, **Link A** proceeds in a southerly direction for approximately 800 feet to the intersection of **Links A**, **B1**, and **B2**.

Link B1

From the intersection of **Links A**, **B1**, and **B2**, **Link B1** proceeds in a westerly direction for approximately 700 feet to an angle point. From this angle point, **Link B1** proceeds in a south/southwesterly direction for approximately 600 feet to the intersection of **Links B1**, **C1**, and **C2**.

Link B2

From the intersection of **Links A**, **B1**, and **B2**, **Link B2** proceeds in an easterly direction for approximately 18,000 feet to an angle point. This segment of **Link B2** crosses County Road (CR) 300, six natural gas pipelines and two crude oil pipelines. From this angle point, **Link B2** proceeds in a southerly direction for approximately 3,700 feet to the intersection of **Links B2**, **C2**, **C3**, and **D3**.

Link C1

From the intersection of **Links B1**, **C1**, and **C2**, **Link C1** proceeds in a southwesterly direction for approximately 1,800 feet to the intersection of **Links C1**, **D1**, and **D2**.

Link C2

From the intersection of **Links B1**, **C1**, and **C2**, **Link C2** proceeds in a southerly direction for approximately 1,200 feet to an angle point. From this angle point, **Link C2** proceeds in an easterly direction for approximately 2,400 feet to an angle point. This segment of **Link C2** crosses two natural gas pipelines. From this angle point, **Link C2** proceeds in a southeasterly direction for approximately 2,400 feet to an angle point. This segment of **Link C2** crosses a natural gas pipeline. From this angle point, **Link C2** proceeds in an easterly direction for approximately 15,200 feet to the intersection of **Links B2**, **C2**, **C3**, and **D3**. This segment of **Link C2** crosses CR 300, three natural gas pipelines and two crude oil pipelines.

Link C3

From the intersection of **Links B2**, **C2**, **C3**, and **D3**, **Link C3** proceeds in an easterly direction for approximately 18,700 feet to an angle point. From this angle point, **Link C3** proceeds in a southeasterly direction for approximately 1,300 feet to an angle point. From this angle point, this segment of **Link C3** proceeds in a southerly direction for approximately 4,300 feet to the intersection of **Links C3**, **E**, and **G4**.

Link D1

From the intersection of **Links C1**, **D1**, and **D2**, **Link D1** proceeds in a westerly direction for approximately 5,800 feet to an angle point. This segment of **Link D1** crosses a crude oil pipeline and a natural gas pipeline. From this angle point, **Link D1** proceeds in a southerly direction for approximately 8,800 feet to an angle point. This segment of **Link D1** crosses two natural gas pipelines and a crude oil pipeline. From this angle point, **Link D1** proceeds in a

south/southeasterly direction for approximately 3,000 feet to the intersection of **Links D1**, **F1**, and **G1**.

Link D2

From the intersection of **Links C1**, **D1**, and **D2**, **Link D2** proceeds in a southerly direction for approximately 2,200 feet to an angle point. From this angle point, **Link D2** proceeds in a south/southeasterly direction for approximately 600 feet. The segment of **Link D2** crosses a natural gas pipeline. From this angle point, **Link D2** proceeds in a southerly direction for approximately 3,200 feet. This segment of **Link D2** crosses two natural gas pipelines. From this angle point, **Link D2** proceeds in a southeasterly direction for approximately 4,500 feet to an angle point. This segment of **Link D2** crosses two crude oil pipelines and a natural gas pipeline. From this angle point, **Link D2** proceeds in a southerly direction for approximately 1,200 feet to an angle point. This segment of **Link D2** crosses a natural gas pipeline. From this angle point, **Link D2** proceeds in a southeasterly direction for approximately 5,000 feet to the intersection of **Links D2**, **F1**, and **F2**.

Link D3

From the intersection of **Links B2**, **C2**, **C3**, and **D3**, **Link D3** proceeds in a southerly direction for approximately 5,400 feet to the intersection of **Links D3**, **D4**, and **E**.

Link D4

From the intersection of **Links D3**, **D4**, and **E**, **Link D4** proceeds in a southeasterly direction for approximately 4,500 feet to an angle point. From this angle point, **Link D4** proceeds in a southerly direction for approximately 2,700 feet to the intersection of **Links D4**, **F3**, and **G3**.

Link E

From the intersection of **Links D3**, **D4**, and **E**, **Link E** proceeds in an easterly direction for approximately 19,700 feet to the intersection of **Links C3**, **E**, and **G4**.

Link F1

From the intersection of **Links D1**, **F1**, and **G1**, **Link F1** proceeds in an easterly direction for approximately 12,900 feet to the intersection of **Links D2**, **F1**, and **F2**. **Link F1** crosses three natural gas pipelines and two crude oil pipelines.

Link F2

From the intersection of **Links D2**, **F1**, and **F2**, **Link F2** proceeds in a southeasterly direction for approximately 1,100 feet to the intersection of **Links F2**, **F3**, and **G2**.

Link F3

From the intersection of **Links F2**, **F3**, and **G2**, **Link F3** proceeds in an easterly direction for approximately 13,900 feet to the intersection of **Links D4**, **F3**, and **G3**. **Link F3** crosses CR 300, two natural gas pipelines, and two crude oil pipelines.

Link G1

From the intersection of **Links D1**, **F1**, and **G1**, **Link G1** proceeds in a southerly direction for approximately 9,200 feet to the intersection of **Links G1**, **H1**, and **I1**. **Link G1** crosses a natural gas pipeline.

Link G2

From the intersection of **Links F2**, **F3**, and **G2**, **Link G2** proceeds in a south/southeasterly direction for approximately 4,900 feet to an angle point. This segment of **Link G2** crosses a natural gas pipeline. From this angle point, **Link G2** proceeds in a southerly direction for approximately 4,300 feet to the intersection of **Links G2**, **H1**, **H2**, and **I2**.

Link G3

From the intersection of **Links D4**, **F3**, and **G3**, **Link G3** proceeds in a southerly direction for approximately 8,600 feet to the intersection of **Links G3**, **H2**, and **I3**.

Link G4

From the intersection of **Links C3**, **E**, and **G4**, **Link G4** proceeds in a southerly direction for approximately 21,900 feet to an angle point. This segment of **Link G4** crosses two natural gas pipelines. From this angle point, **Link G4** proceeds in a west/southwesterly direction for approximately 8,300 feet to an angle point. From this angle point, **Link G4** proceeds in a westerly direction for approximately 10,100 feet to the intersection of **Links G4**, **I3**, **J2**, and **M**.

Link H1

From the intersection of **Links G1**, **H1**, and **I1**, **Link H1** proceeds in an easterly direction for approximately 16,200 feet to the intersection of **Links G2**, **H1**, **H2**, and **I2**. **Link H1** crosses two crude oil pipelines and three natural gas pipelines.

Link H2

From the intersection of **Links of G2**, **H1**, **H2**, and **I2**, **Link H2** proceeds in an easterly direction for approximately 11,500 feet to the intersection of **Links G3**, **H2**, and **I3**. **Link H2** crosses CR 300, two crude oil pipelines, and a natural gas pipeline.

Link I1

From the intersection of **Links G1**, **H1**, and **I1**, **Link I1** proceeds in a southerly direction for approximately 1,100 feet to an angle point. From this angle point, **Link I1** proceeds in a southwesterly direction for approximately 1,200 feet to an angle point. From this angle point, **Link I1** proceeds in a southerly direction for approximately 1,200 feet to an angle point. From this angle point, **Link I1** proceeds in a south/southeasterly direction for approximately 9,200 feet to the intersection of **Links I1**, **J1**, and **K1**.

Link I2

From the intersection of **Links G2**, **H1**, **H2**, and **I2**, **Link I2** proceeds in a southerly direction for approximately 11,200 feet to the intersection of **Links I2**, **J1**, **J2**, and **L**. **Link I2** crosses two natural gas pipelines.

Link I3

From the intersection of **Links G3**, **H2**, and **I3**, **Link I3** proceeds in a southerly direction for approximately 2,300 feet to an angle point. From this angle point, **Link I3** proceeds in a south/southwesterly direction for approximately 1,100 feet to an angle point. From this angle point, **Link I3** proceeds in a southerly direction for approximately 2,400 feet to an angle point. From this angle point, **Link I3** proceeds in a south/southeasterly direction for approximately 1,800 feet to an angle point. From this angle point, **Link I3** proceeds in a southerly direction for approximately 3,900 feet to the intersection of **Links G4**, **I3**, **J2**, and **M**.

Link J1

From the intersection of **Links I1**, **J1**, and **K1**, **Link J1** proceeds in an easterly direction for approximately 12,300 feet to the intersection of **Links I2**, **J1**, **J2**, and **L**. **Link J1** crosses two crude oil pipelines and a natural gas pipeline.

Link J2

From the intersection of **Links I2**, **J1**, **J2**, and **L**, **Link J2** proceeds in an easterly direction for approximately 11,400 feet to the intersection of **Links G4**, **I3**, **J2**, and **M**. **Link J2** crosses three natural gas pipelines, two crude oil pipelines, and CR 300.

Link K1

From the intersection of **Links I1**, **J1**, and **K1**, **Link K1** proceeds in a south/southeasterly direction for approximately 12,600 feet to an angle point. This segment of **Link K1** crosses a crude oil pipeline and a natural gas pipeline. From this angle point, **Link K1** proceeds in an easterly direction for approximately 14,700 feet to the intersection of **Links K1**, **K2**, **L**, and **N1**. This segment of **Link K1** crosses two natural gas pipelines and three crude oil pipelines.

Link K2 (Bi-directional Link)

From the intersection of **Links K1**, **K2**, **L**, and **N1**, **Link K2** proceeds in an easterly direction for approximately 2,400 feet to the intersection of **Links K2**, **M**, and **N2**.

Link L

From the intersection of **Links I2**, **J1**, **J2**, and **L**, **Link L** proceeds in a southeasterly direction for approximately 4,400 feet to an angle point. This segment of **Link L** crosses two crude oil pipelines and a natural gas pipeline. From this angle point, **Link L** proceeds in a south/southeasterly direction for approximately 6,600 feet to an angle point. This segment of **Link L** crosses a natural gas pipeline. From this angle point, **Link L** proceeds in a southeasterly direction for approximately 3,200 feet to the intersection of **Links K1**, **K2**, **L**, and **N1**.

Link M

From the intersection of **Links G4**, **I3**, **J2**, and **M**, **Link M** proceeds in a southerly direction for approximately 600 feet to an angle point. From this angle point, **Link M** proceeds in a southeasterly direction for approximately 4,600 feet to an angle point. From this angle point, **Link M** proceeds in a southwesterly direction for approximately 3,800 feet to an angle point. This segment of **Link M** crosses CR 300. From this angle point, **Link M** proceeds in a southerly direction for approximately 3,800 feet to the intersection of **Links K2**, **M**, and **N2**. This segment of **Link M** crosses two natural gas pipelines.

Link N1

From the intersection of **Links K1**, **K2**, **L**, and **N1**, **Link N1** proceeds in a southerly direction for approximately 5,300 feet to an angle point. This segment of **Link N1** crosses an existing transmission line, five crude oil pipelines, two natural gas pipelines, and three highly volatile liquid pipelines. From this angle point, **Link N1** proceeds in an east/southeasterly direction for approximately 2,600 feet to the intersection of **Links N1**, **N2**, and **Z**.

Link N2

From the intersection of **Links K2**, **M**, and **N2**, **Link N2** proceeds in a southerly direction for approximately 6,100 feet to the intersection of **Links N1**, **N2**, and **Z**. **Link N2** crosses an existing transmission line, five crude oil pipelines, two natural gas pipelines, and three highly volatile liquid pipelines.

Link Z

From the intersection of **Links N1**, **N2**, and **Z**, **Link Z** proceeds in a southerly direction for approximately 800 feet to Quarry Field Switch.

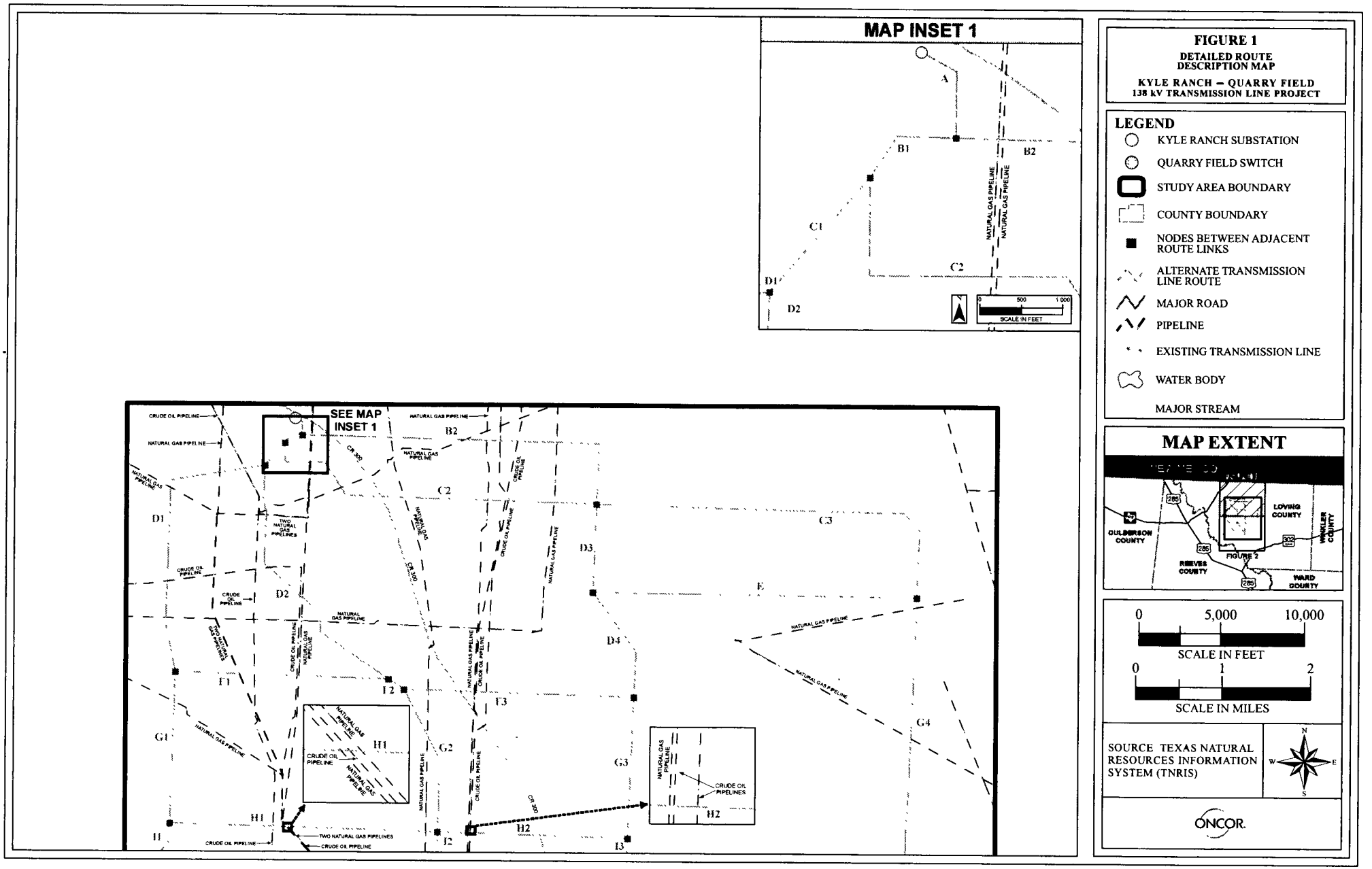

FIGURE 1
DETAILED ROUTE DESCRIPTION MAP
KYLE RANCH – QUARRY FIELD
138 kV TRANSMISSION LINE PROJECT

LEGEND

- KYLE RANCH SUBSTATION
- QUARRY FIELD SWITCH
- STUDY AREA BOUNDARY
- COUNTY BOUNDARY
- NODES BETWEEN ADJACENT ROUTE LINKS
- ALTERNATE TRANSMISSION LINE ROUTE
- MAJOR ROAD
- PIPELINE
- EXISTING TRANSMISSION LINE
- WATER BODY
- MAJOR STREAM

MAP EXTENT

0 5,000 10,000
SCALE IN FEET
0 1 2
SCALE IN MILES

SOURCE TEXAS NATURAL RESOURCES INFORMATION SYSTEM (TNRIS)

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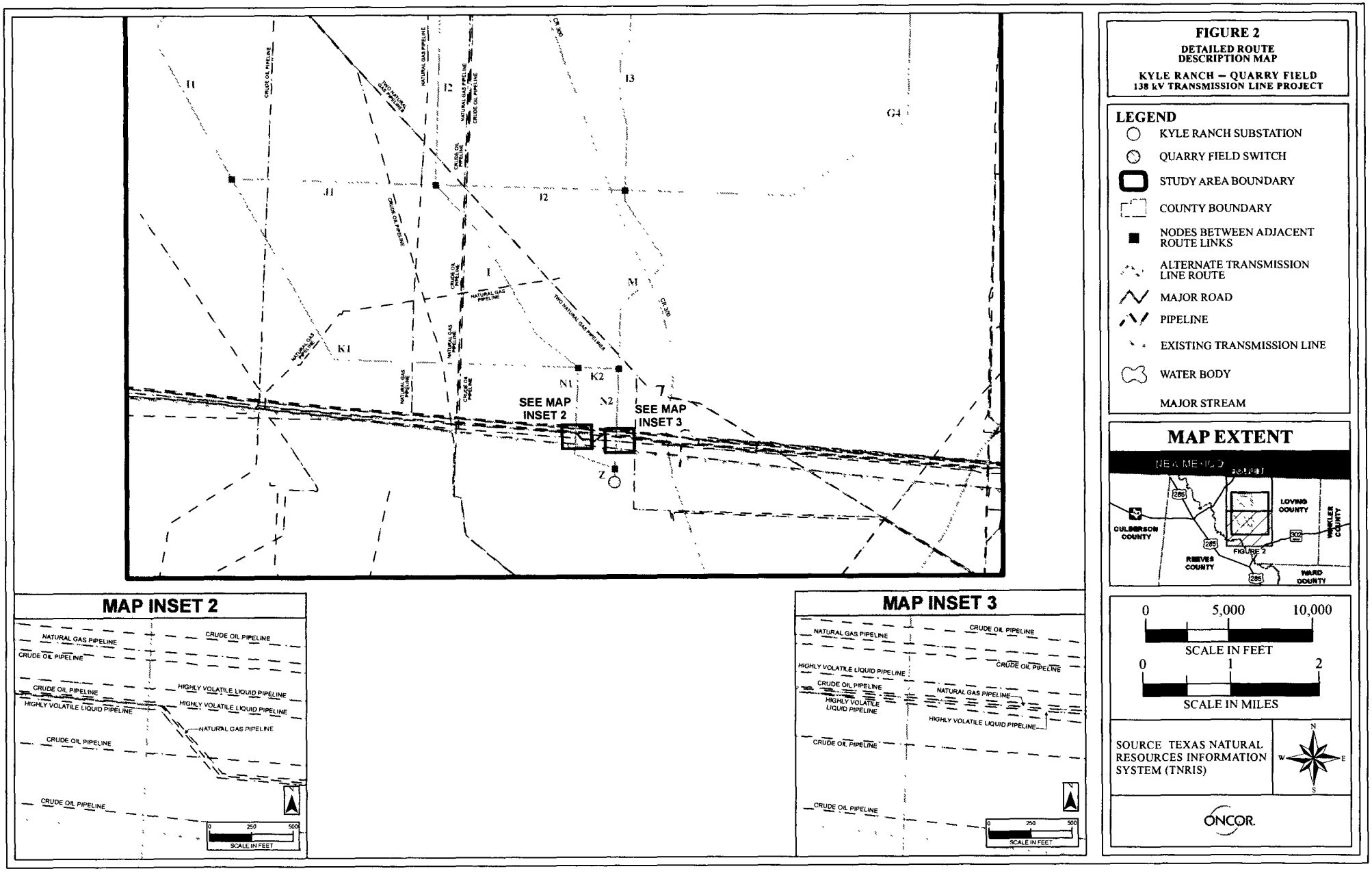
FIGURE 2
DETAILED ROUTE DESCRIPTION MAP
KYLE RANCH – QUARRY FIELD
138 kV TRANSMISSION LINE PROJECT
LEGEND
KYLE RANCH SUBSTATION
QUARRY FIELD SWITCH
STUDY AREA BOUNDARY
COUNTY BOUNDARY
NODES BETWEEN ADJACENT ROUTE LINKS
ALTERNATE TRANSMISSION LINE ROUTE
MAJOR ROAD
PIPELINE
EXISTING TRANSMISSION LINE
WATER BODY
MAJOR STREAM
MAP EXTENT
NEW MEXICO
TEXAS
CULBERSON COUNTY
LOVING COUNTY
WINKLER COUNTY
REEVES COUNTY
WARD COUNTY
FIGURE 2
SEE MAP INSET 2
SEE MAP INSET 3
MAP INSET 2
NATURAL GAS PIPELINE
CRUDE OIL PIPELINE
HIGHLY VOLATILE LIQUID PIPELINE
SCALE IN FEET
MAP INSET 3
NATURAL GAS PIPELINE
CRUDE OIL PIPELINE
HIGHLY VOLATILE LIQUID PIPELINE
SCALE IN FEET
0 5,000 10,000
SCALE IN FEET
0 1 2
SCALE IN MILES
SOURCE TEXAS NATURAL RESOURCES INFORMATION SYSTEM (TNRIS)
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