Urban Design Committee — Agenda of July 7, 2010
Central Lincoln Reliability Study (LES)

Urban Design Committee is familiar with the review of LES substations and especially their landscape plans. This responsibility derives from the Committee's duty and power for:

> *review of projects by any utility company, public or private, ...limited to (i) construction of buildings, distribution substations, and ground-level switching stations;*

The second part of that section of Lincoln Municipal code empowers UDC to review

> *(ii) construction located within an historic district designated by the federal government or the City of Lincoln or within 300 feet of an historic landmark as designated by the federal government or the City of Lincoln. However, no project which is to be reviewed by the Historic Preservation Commission shall be reviewed by the Urban Design Committee.*

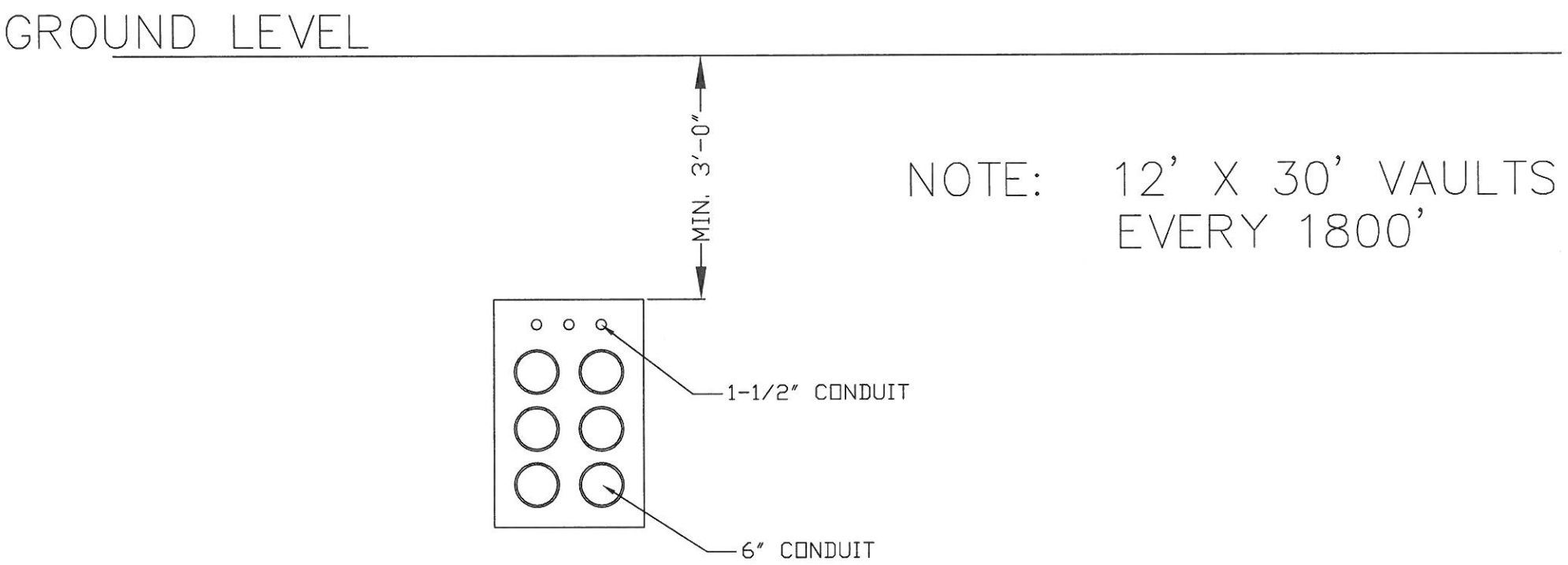
The Central Lincoln Reliability Project is a major effort by LES involving four substations (including a new one at 21st and N Streets) and approximately five miles of 115kV transmission lines. An LES representative will visit with the Committee to share details of the purpose, timeline, and process for this project. Details are also available on www.les.com (Central Reliability Study) including high-resolution maps.

This summer LES is collecting responses to an array of possible routes. Dashed black and white lines are possible underground (only) routes. Red lines are possible above ground or below ground transmission lines. Provided in your packet are small color maps and black and white maps on which I've circled landmarks with an approximate 300' radius and sketched a similar offset from the historic districts, to suggest the possible routes that "trigger" the Committee's authority to comment.

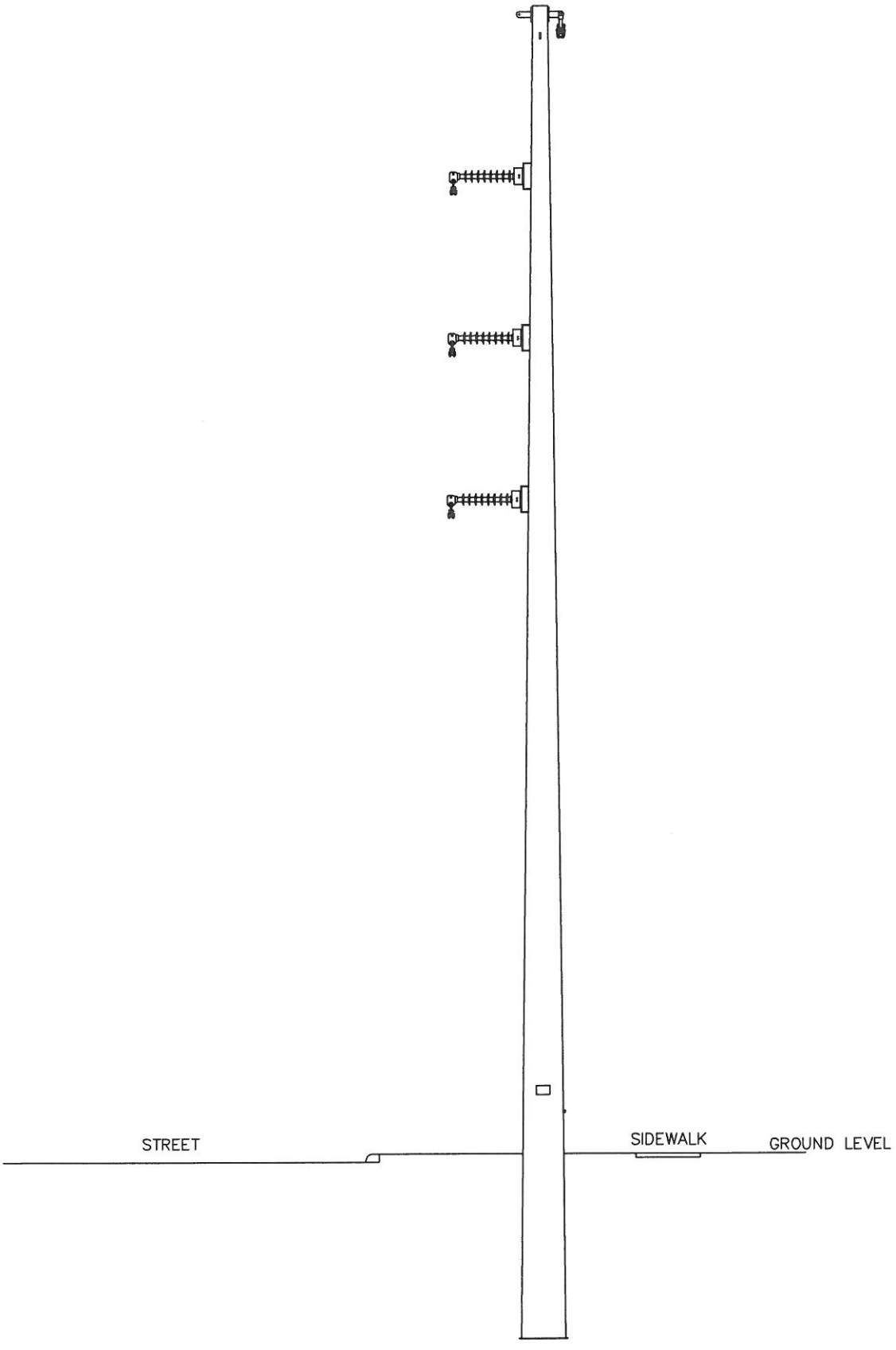
Capitol Environs Commission has also provided general comments and will address the current proposals as well. Historic Preservation Commission will be consulted on the proposed routes most directly effecting historic properties. The scope of UDC's comments will be among the broadest of the three design boards, due to the "300-foot-rule" in the enabling ordinance and the density of historic resources in central Lincoln.

LES describes the below-ground lines are running in concrete duct banks with six 6" diameter conduits for transmission lines and three 1/5" ducts for fiber. The overall measurements of the duct banks would be about 3'x2' and they would be a minimum of three feet below grade. Every 1800 feet, a 12' x 30' vault would be required. The overhead lines would be supported by metal monopoles, typically 70' to 90' tall. If there were distribution wires below the transmission lines, the taller height would be necessary. To accommodate tree canopies below, an even greater height (100' to 125') might be utilized.

Additional helpful information from LES staff:
"We would keep a minimum ground clearance from the lowest wire at maximum sag at 25'."
"For the overhead, we have similar structures existing that run along 8th St. In the Haymarket area."



NOTE: 12' X 30' VAULTS EVERY 1800'


STREET
SIDEWALK
GROUND LEVEL

LES

Central Lincoln Reliability Project

June 2010

Legend

- Possible Above Ground or Underground 115kV Transmission Line
- Possible Underground Only 115kV Transmission Line
- Substation Location
- Historical Place
- Fire Station
- Antelope Creek Trail
- Beadle Center
- Hospital
- Park
- School
- Historical District
- Capitol Environs District
- State Capitol Study Area

Antelope Valley Project Features

- Bridge
- Parking Lot
- Green Space / Landscaping
- Road

Aerial Imagery: 2010 Lancaster County

56th & Everett to 30th & A
Possible 115kV Transmission Line Routes

30th & A Substation

56th & Everett Substation

BryanLGH Medical Center East

Central Lincoln Reliability Project

June 2010

Legend

- Possible Above Ground or Underground 115kV Transmission Line
- Possible Underground Only 115kV Transmission Line
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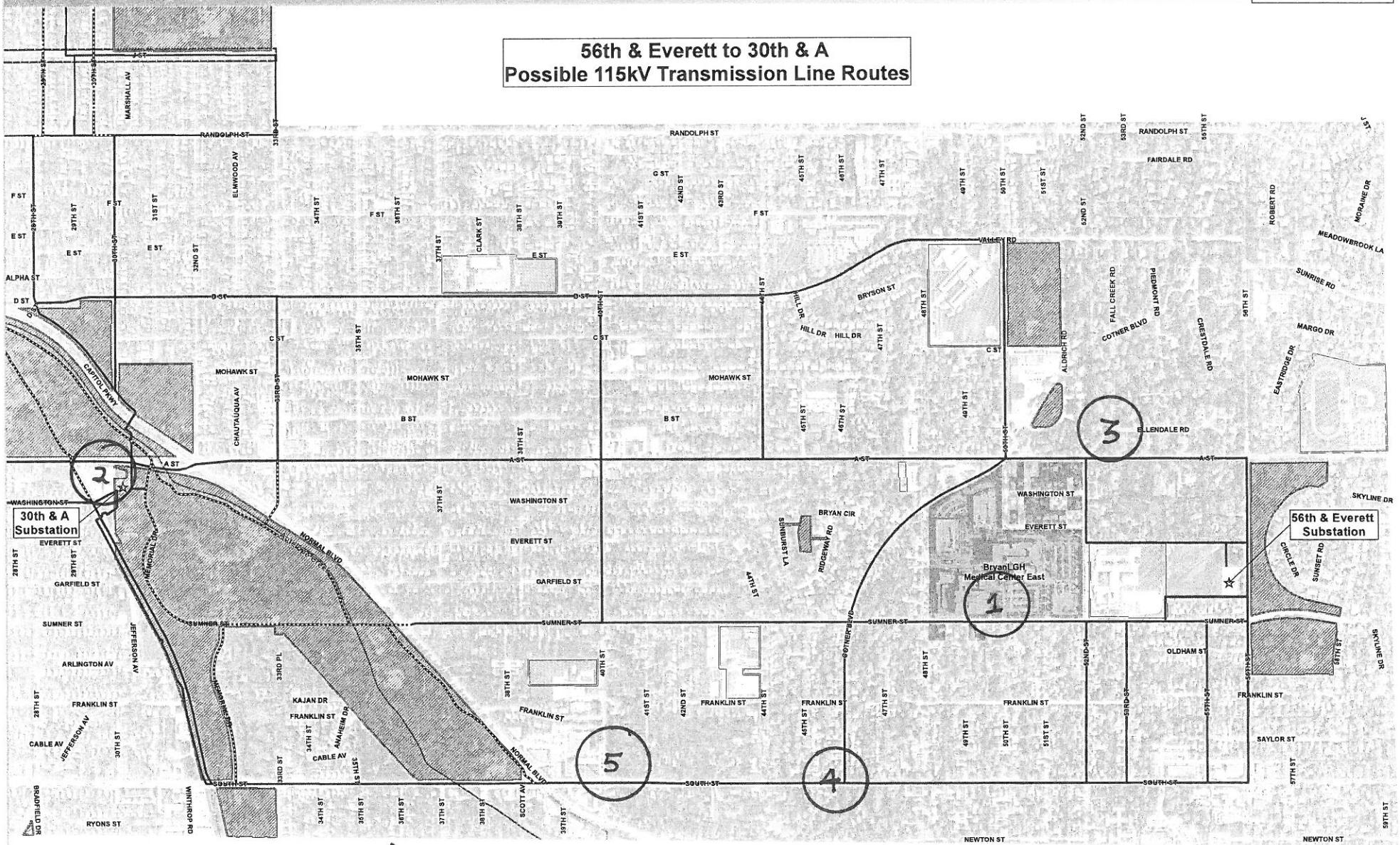
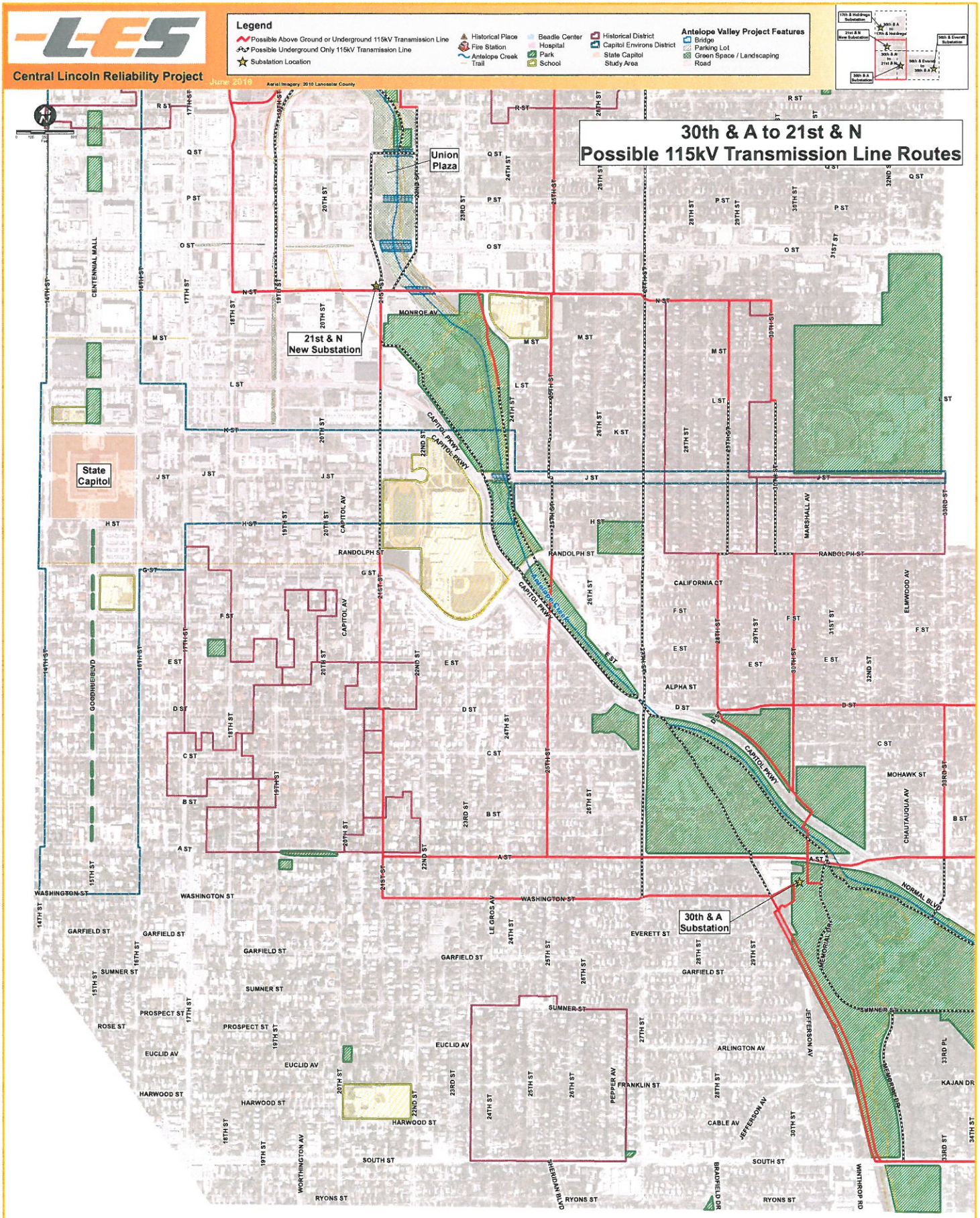
Aerial Imagery: 2010 Lancaster County

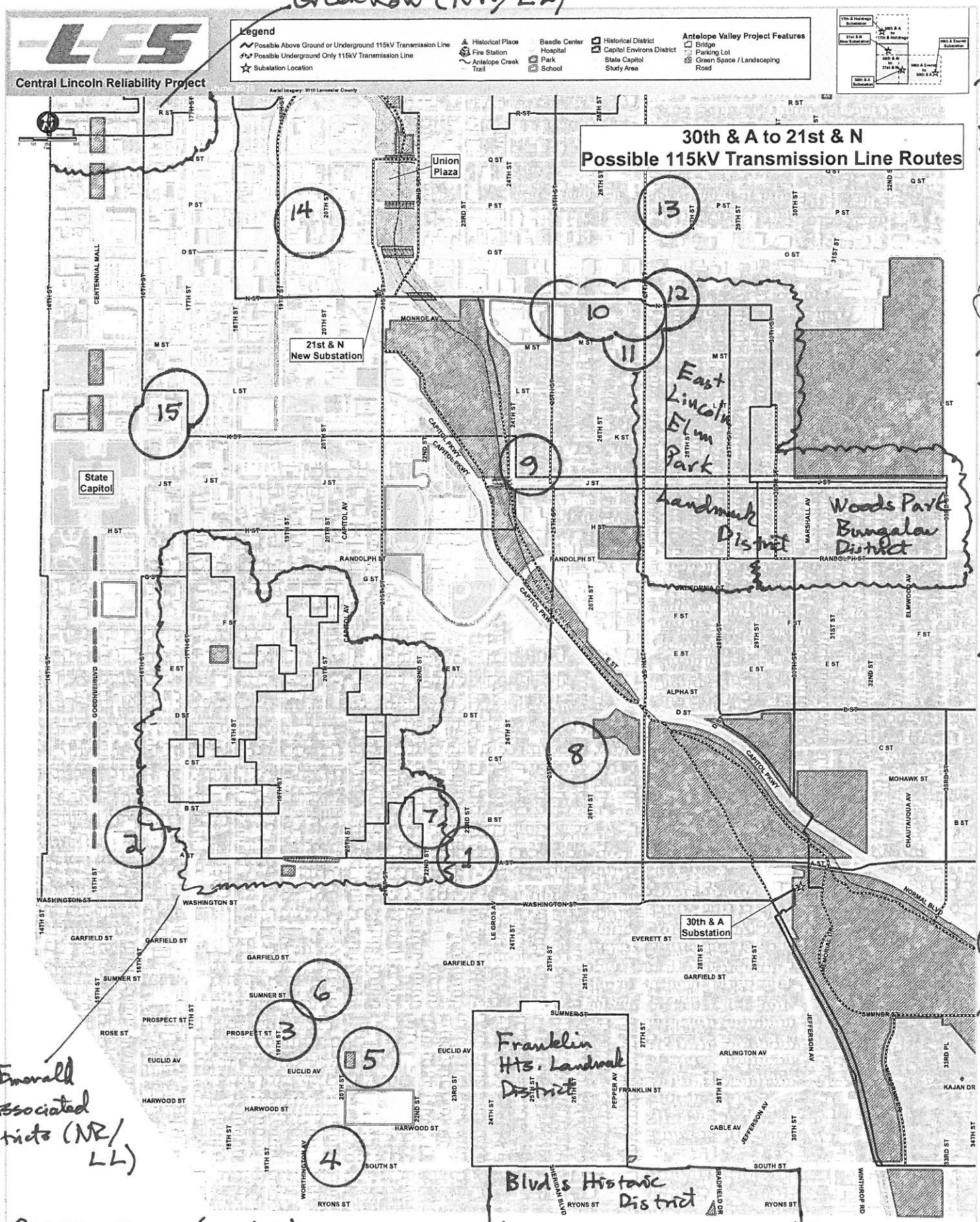
56th & Everett to 30th & A
Possible 115kV Transmission Line Routes



(1) Fairview (NHL)
(2) AST. Water & Power (Water Park)(LL, NR)
(3) Griswold House (LL)
(4) South Telephone Exchange (LL)
(5) Park Hill (NR-pending)

NHL (Nat'l Historic Landmark)
NR (National Register)
LL (Lincoln Landmark)


LES
Central Lincoln Reliability Project
June 2018
Aerial Imagery: 2010 Lancaster County
Legend
Possible Above Ground or Underground 115kV Transmission Line
Possible Underground Only 115kV Transmission Line
Substation Location
Historical Place
Fire Station
Antelope Creek Trail
Beadle Center
Hospital
Park
School
Historical District
Capitol Environs District
State Capitol Study Area
Antelope Valley Project Features
Bridge
Parking Lot
Green Space / Landscaping
Road
30th & A to 21st & N
Possible 115kV Transmission Line Routes
Union Plaza
21st & N New Substation
State Capitol
30th & A Substation
MONROE AV
CAPITOL PKWY
RANDOLPH ST
WASHINGTON ST
GARFIELD ST
SUMNER ST
PROSPECT ST
EUCLID AV
HARWOOD ST
SOUTH ST
RYONS ST
EVERETT ST
ALPHA ST
CALIFORNIA CT
MOHAWK ST
NORMAL BLVD
ARLINGTON AV
FRANKLIN ST
CABLE AV
KAJAN DR
R ST
Q ST
P ST
O ST
N ST
M ST
L ST
K ST
J ST
H ST
G ST
F ST
E ST
D ST
C ST
B ST
A ST
14TH ST
15TH ST
16TH ST
17TH ST
18TH ST
19TH ST
20TH ST
21ST ST
22ND ST
23RD ST
24TH ST
25TH ST
26TH ST
27TH ST
28TH ST
29TH ST
30TH ST
31ST ST
32ND ST
33RD ST
34TH ST
CENTENNIAL MALL
GOODHUE BLVD
CAPITOL AV
MARSHALL AV
ELMWOOD AV
CHAUTAUQUA AV
JEFFERSON AV
WORTHINGTON AV
SHERIDAN BLVD
BRADFIELD DR
WINTHROP RD



(15) Masonic Temple (NR) & Harris House (NR/LL)

Mt Emerald & Associated Districts (NR/LL)

(12) Stake House (NR/LL)

(13) Taylor House (LL)

(14) RIRR Depot (NR)

(11) Gay Brown House (NR)

(1) Gillen House (NR/LL)
(2) Trinity Methodist (NR)
(3) Thayer House (NR)
(4) South St Temple (NR)
(5) Maple Lodge (NR)
(6) LT&T Exchange (LL)
(7) Reimers Bungalow (LL)
(8) Ray Pauley House (LL)
(9) Antelope Grocery (LL/NR)
(10) Murphy Sheldon, Hally, Pace Hses (NR/LL, LL, LL)

LES

Central Lincoln Reliability Project

June 2019

Aerial Imagery: 2010 Lancaster County

Legend

- Possible Above Ground or Underground 115kV Transmission Line
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- Fire Station
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Antelope Valley Project Features

- Bridge
- Parking Lot
- Green Space / Landscaping
- Road

21st & N to 17th & Holdrege
Possible 115kV Transmission Line Routes

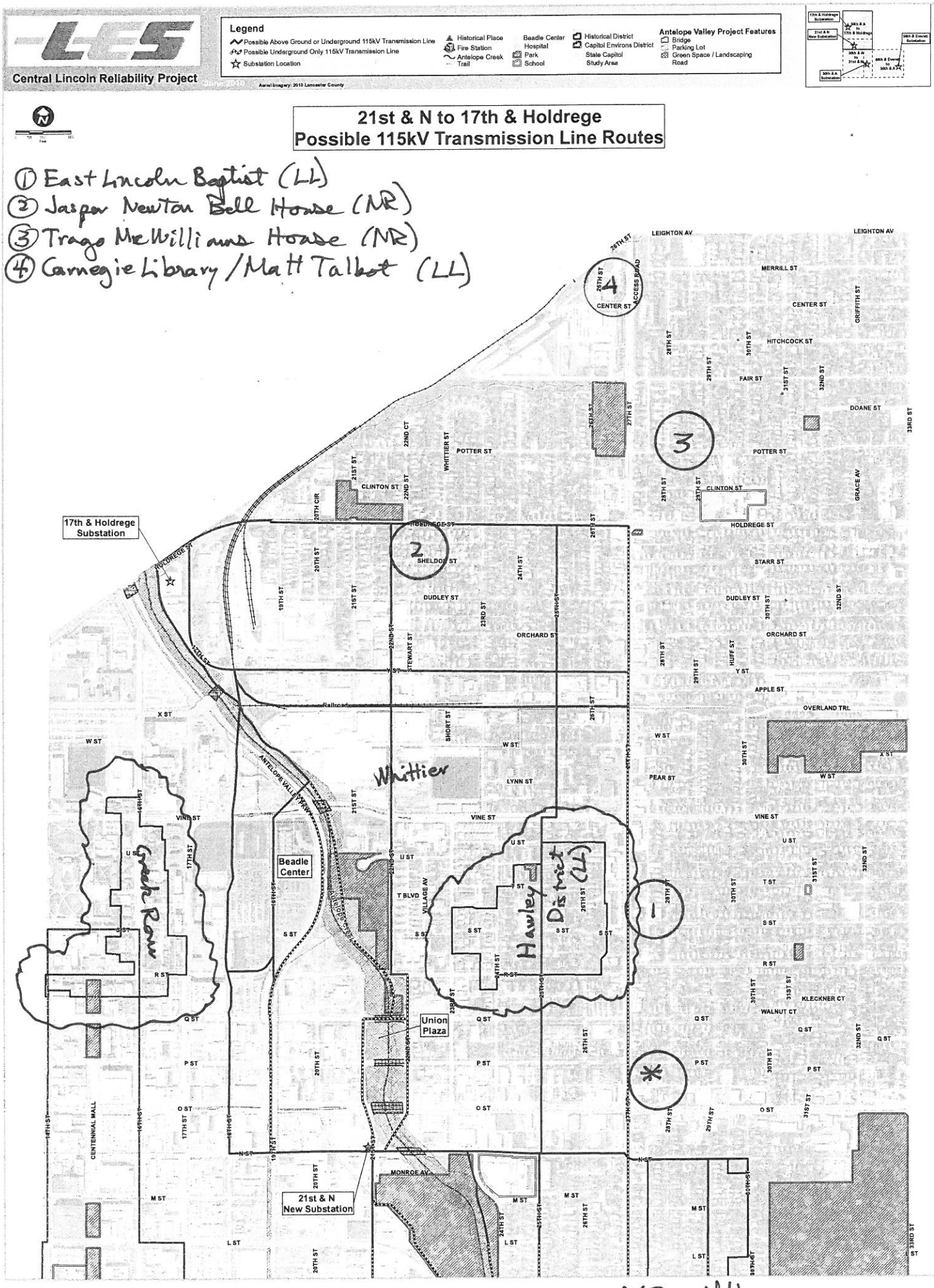
17th & Holdrege Substation

Beadle Center

Union Plaza

21st & N New Substation

LEIGHTON AV
MERRILL ST
CENTER ST
HITCHCOCK ST
FAIR ST
DOANE ST
POTTER ST
CLINTON ST
HOLDREGE ST
STARR ST
SHELDON ST
DUDLEY ST
ORCHARD ST
APPLE ST
OVERLAND TRL
Railroad
LYNN ST
PEAR ST
VINE ST
T BLVD
KLECKNER CT
WALNUT CT
MONROE AV
CENTENNIAL MALL
ACCESS ROAD
GRIFFITH ST
GRACE AV
WHITTIER ST
STEWART ST
SHORT ST
HUFF ST
VILLAGE AV
ANTELOPE VALLEY PKWY
Antelope Creek



* See middle map.