

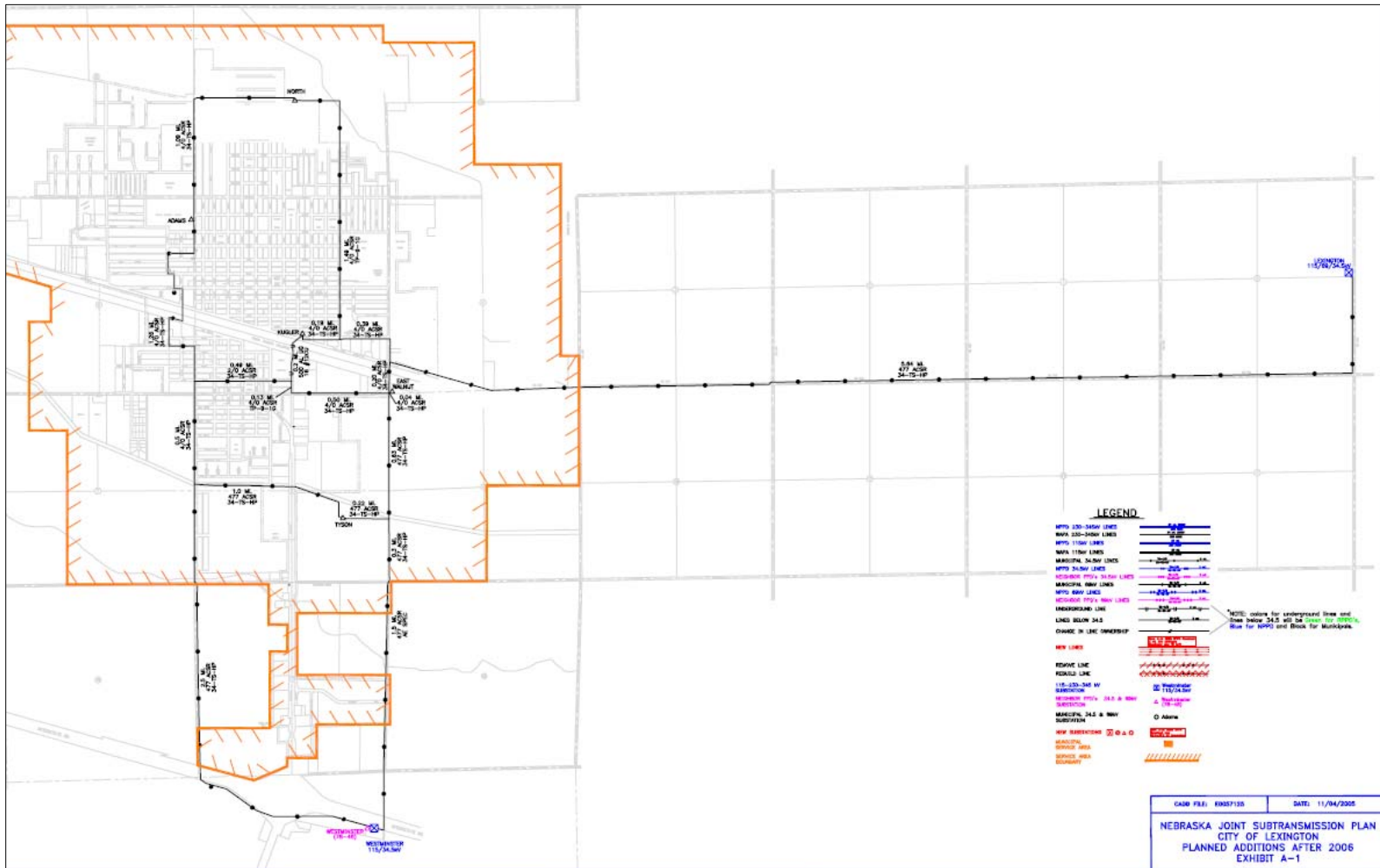
Lexington 34.5kV Line Construction

Presented to the
Lexington City Council

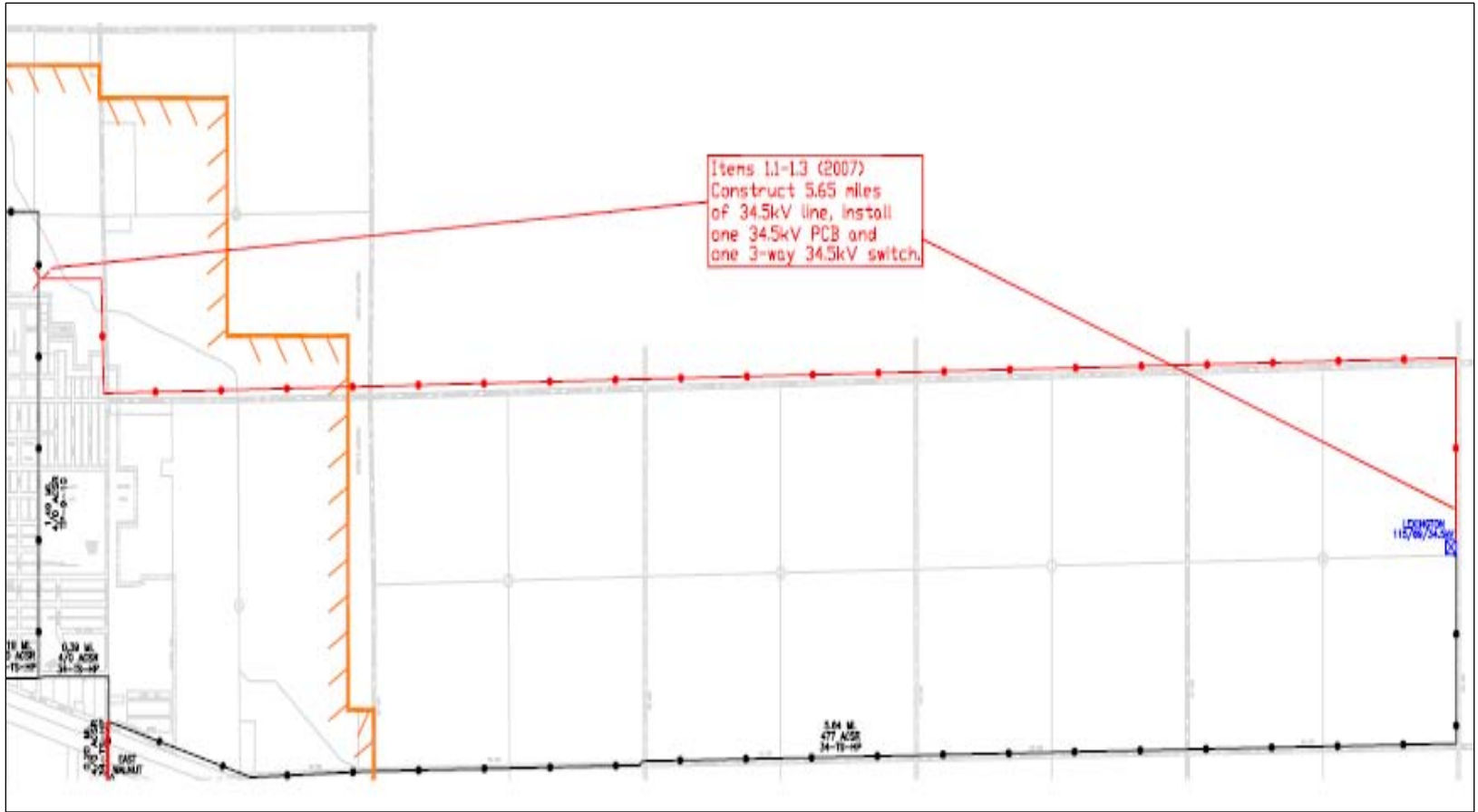
34.5kV Line Construction

- Currently, there is one circuit from NPPD's substation east of town that serves the City of Lexington.
- City electric loadings have grown beyond the capacity of the existing transmission line.
- It has been recommended to install a second circuit that will connect in on the north side of town.

Current Lexington Sub-transmission System




Map of New Line Route



TIE POINT
WITH EXISTING
34.5KV LINE

NEW LINE ROUTE
FOR 115KV LINE

LEXINGTON
115KV SUB 



Project Schedule

- Construction will begin in the summer of 2008
- Estimated length of construction is 8 weeks

Estimated Costs

- This project involves the construction of another circuit to serve the City's growth and contingency needs.
- The project is estimated to cost \$1.1M.

NPPD Substation Addition

- To provide for adequate and reliable power, NPPD is increasing the amount of energy that can be delivered from the 115kV East Lexington substation.
- Capacity will more than double, from 25MVA to 56MVA
- This will be done concurrently with the sub-transmission line construction.

PROJECT APPROVAL DOCUMENT
for
APPROVAL OF ACTIVITIES OR PROJECTS EXCEEDING \$20,000.00

New 34.5 from the Lexington 115 substation to the 34.5 ring bus

Order # **4590192**

- I. Scope of Project: This project includes the construction of approximately 6 miles of 34.5kV sub-transmission line originating at NPPD's 115kV substation east of Lexington and connecting into the 34.5kV ring bus in the north section of the City of Lexington.
- II. Project Justification: This project will provide an additional sub-transmission source into Lexington which will increase the power reliability within the city.
- III. Project Schedule: Construction will begin in the summer of 2008 and is scheduled to be completed by in early fall of 2008. The length of construction time will be approximately 8 weeks.
- IV. Estimated Project Costs: The estimated cost of this project is \$1,086,435.
- V. Approval/Disapproval

The undersigned representative(s) of the City of Lexington and Nebraska Public Power District APPROVE/DISAPPROVE (circle one) the above-described project expenditures.

City of Lexington

Nebraska Public Power District

(Name)

(Name)

(Title)

(Title)

Date: _____

Date: _____

- VI. Upon the approval of the above described project by both parties, this project will be performed in accordance with the terms and provisions of the Electric System Operation Agreement executed by Nebraska Public Power District and City of Lexington.

*Send original to Lori Killion, York Operations Center