



December 5, 2007

Ms. Linda Weldon
Executive Director
Southeast Kansas Regional Planning Commission
P.O. Box 664
Chanute, KS 66720-0664

Dear Ms. Weldon:

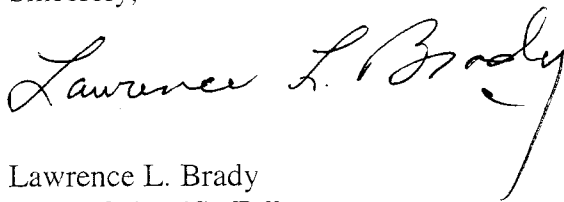
I received your inquiry to the Kansas Geological Survey seeking input on "Environmental Assessment Comments" for the City of Galena, Kansas, for the drilling of exploration holes for determining the location of abandoned lead-zinc mine openings. The area of drilling is within the city limits, municipal office complex and the downtown business district of Galena.

It is my understanding that this review is necessary for this project to be considered for an Economic Adjustment Grant from the U.S. Department of Commerce EDA. Based on the information provided to the Kansas Geological Survey, it is not clear how many borings are planned for determining the conditions under the selected areas. It is well known that there is potential for subsidence in parts of the selected areas. However, the need of additional evaluation of those hazards is what is proposed by the City of Galena, and that is a reasonable concern and request. Outlines of several known mines are shown on the drawings obtained from the Surface Mining Section of the Kansas Department of Health and Environment and included with the request. The persons or company that will determine placement of the boring locations should also review the large study titled "Study of stability problems and hazard evaluation of the Kansas portion of the Tri-State mining area" by J.R. McCauley and others (1983) which devotes considerable discussion and tabulation of problem areas in Galena as well as other areas of southeast Kansas. The study is available on the Kansas Geological Survey website as Kansas Geological Survey Open-file Report #83-2 at <http://www.kgs.ku.edu/Publications/OFR/1983/83-2/index.html> including underground mined areas and shaft locations. I have included a generalized copy of Plate II-C from the McCauley study, and a photocopy from that plate at full-scale of the Galena area. Source of the original mine maps and data compiled in the Kansas Geological Survey open-file report was mainly from mine maps and drill information compiled by the old U.S. Bureau of Mines and that information is available in archives in the library of Missouri Southern State University in Joplin, Missouri.

Recognizing the need of a careful review of portions of Galena, Kansas, the Kansas Geological Survey provides the necessary clearance from our agency for your project and I have signed the form requesting environmental assessment comments. Best wishes for your proposed drilling program and evaluation of the borings.

The above discussion represents our best assessment of the proposed project based on the information that the Kansas Geological Survey has available about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this proposed study. The information provided in this letter is from regional or countywide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

Sincerely,

A handwritten signature in cursive script, reading "Lawrence L. Brady". The signature is written in dark ink and is positioned above the printed name and title.

Lawrence L. Brady
Senior Scientific Fellow

Enc.

PLATE 11-C. OPEN SHAFTS, PITS, AND SUBSIDENCES

EXPLANATION:

- OPEN SHAFT (NUMBER REFERS TO INFORMATION IN TABLE C-1)
- LARGE COLLAPSED SHAFT
- OPEN PIT HINE
- HINE SUBSIDENCE (NUMBER REFERS TO INFORMATION IN TABLE C-2)
- SMALL HINE SUBSIDENCE
- REPORT OF PAST HINE SUBSIDENCE
- ADIT
- AREA OF CLOSELY SPACED HINE HAZARDS

HAZARDS IN THESE SECTIONS ARE
ENLARGED AND NUMBERED IN FIG-
URES 9-8 THROUGH 8-15

WESTERN QUAD
PLATE 11-B

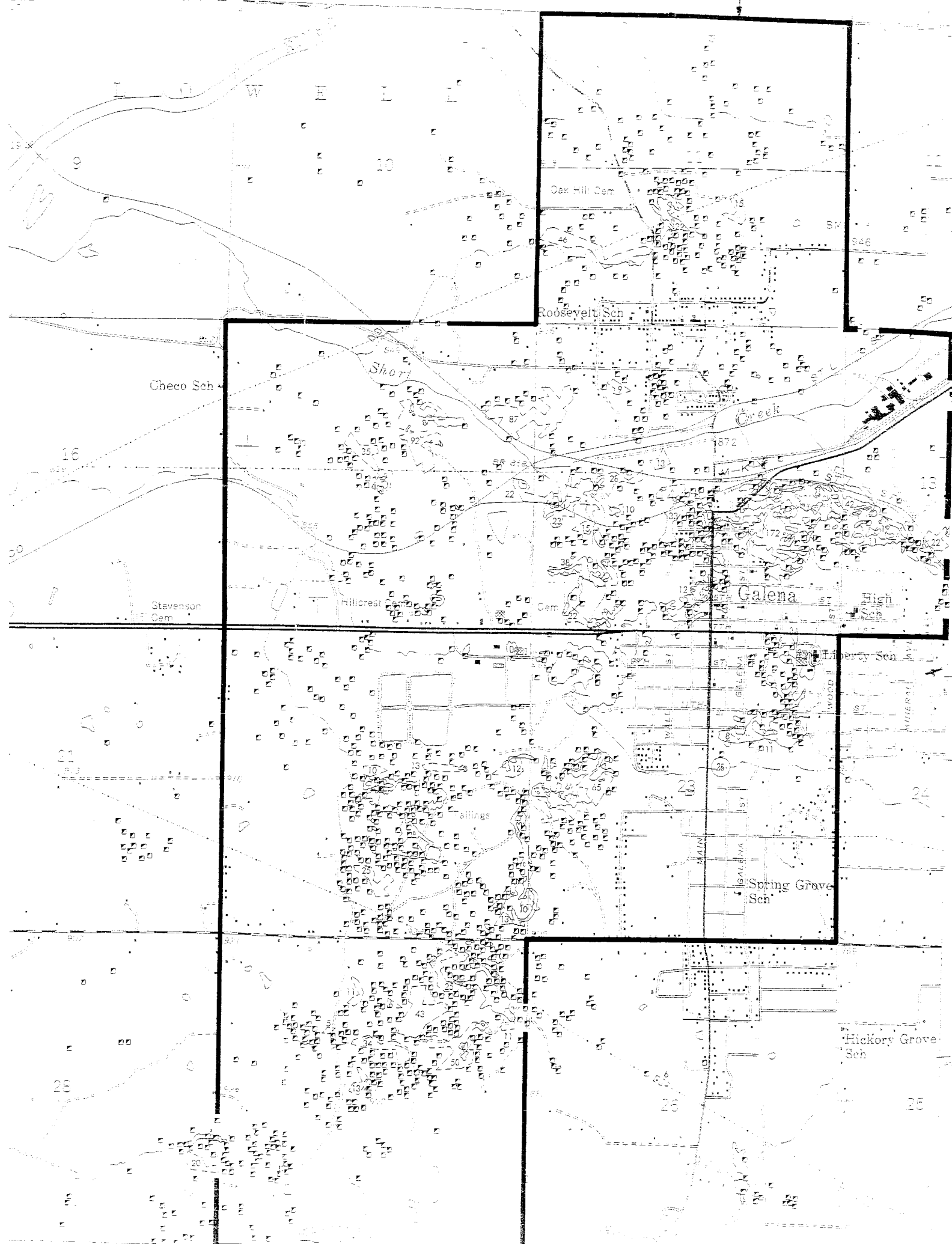
SCALE 1:24,000

PLATE 11-C: OPEN SHAFTS, PITS, AND SUB-
SIDENCES, BAXTER SPRINGS QUADRANGLE, KANSAS
BY JAMES S. MCGAWLEY, 1983

KANSAS GEOLOGICAL SURVEY, THE UNIVERSITY OF KANSAS
LAUREL, KANSAS

PREPARED UNDER U.S. BUREAU OF MINES
CONTRACT NO. J0100131

MODIFIED AFTER U.S. GEOLOGICAL SURVEY BASE MAPS
BAXTER SPRINGS, KANSAS QUADRANGLE, 1959
PHOTOREPRODUCED 1978
DRAFTED BY DARRELL L. DREW, 1983



Request for Environmental Assessment Comments

REPLY REQUESTED BY: 12-29-07

TO: Larry Brady Kansas Geological Survey University of Kansas 1930 Constant Avenue, Campus West Lawrence, KS 66047 (Please indicate any change in address or personnel)	GRANT NUMBER AND PROGRAM: 2007 Economic Adjustment Grant U.S. Department of Commerce EDA
APPLICANT NAME AND ADDRESS: City of Galena 211 W. 7th Galena, KS 66739	RETURN TO: Linda Weldon, Executive Director Southeast Kansas Regional Planning Commission P.O. Box 664 Chanute, KS 66720-0664 620-431-0080
PROGRAM ACTIVITY/PROJECT NAME: U.S. Department of Commerce, Economic Development Administration, Economic Adjustment program	LOCATION: The project will be located in the city of Galena, Kansas.

PROGRAM ACTIVITY/DESCRIPTION: This project will consist of drilling exploratory holes to find abandoned mine openings within the city limits, municipal office complex and the downtown business district.

NE 1/4 Section 23-35-25E; Baxter Springs, KS Quad

REVIEW AGENCY COMMENTS:

No Comment _____

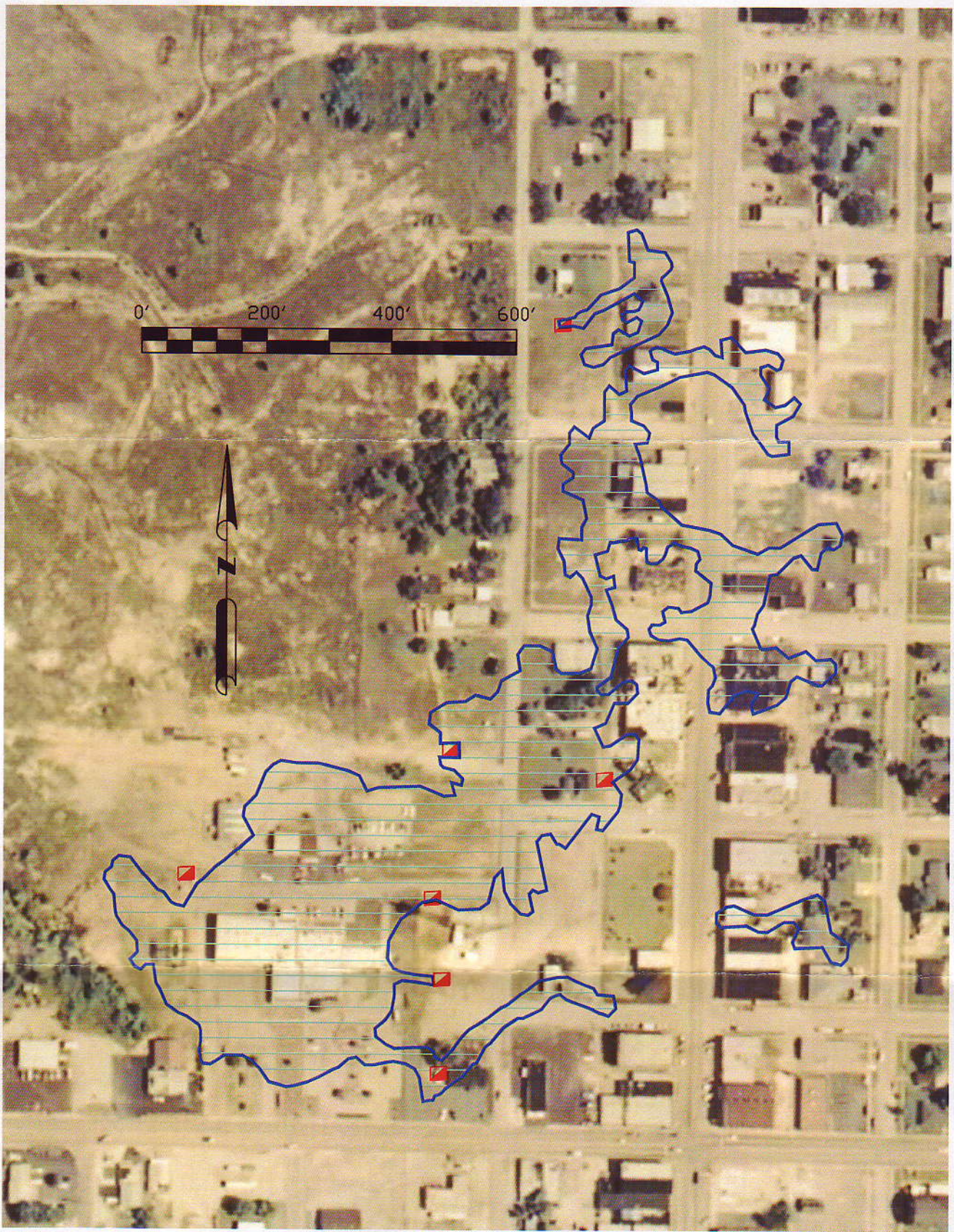
Project Approval _____

Other ☒ (Explain Below)

See comments in attached letter

Is any part of this project located within a Floodplain? NO

SIGNATURE: <i>Lawrence L. Brady</i>	TITLE: <i>Senior Scientific Fellow</i>	DATE: <i>12/5/07</i>
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KDHE - Surface Mining Section, Engineering

For: EDA Application Review

Description: Mine Voids at Municipal Bldg. & Business District (1935)

Location: NE 1/4 Section 23-35-25 E; Baxter Springs, KS Quad.

Project: Galena High School Risk Assessment

Date: March 30, 2007

By: FCF

Drawing: GalenaEDA_(bxtquad.dwg)



KDHE - Surface Mining Section, Engineering

For: EDA Application Review

Description: Mine Voids at High School Site (1935)

Location: NE 1/4 Section 23-35-25 E; Baxter Springs, KS Quad.

Project: Galena High School Risk Assessment

Date: March 30, 2007

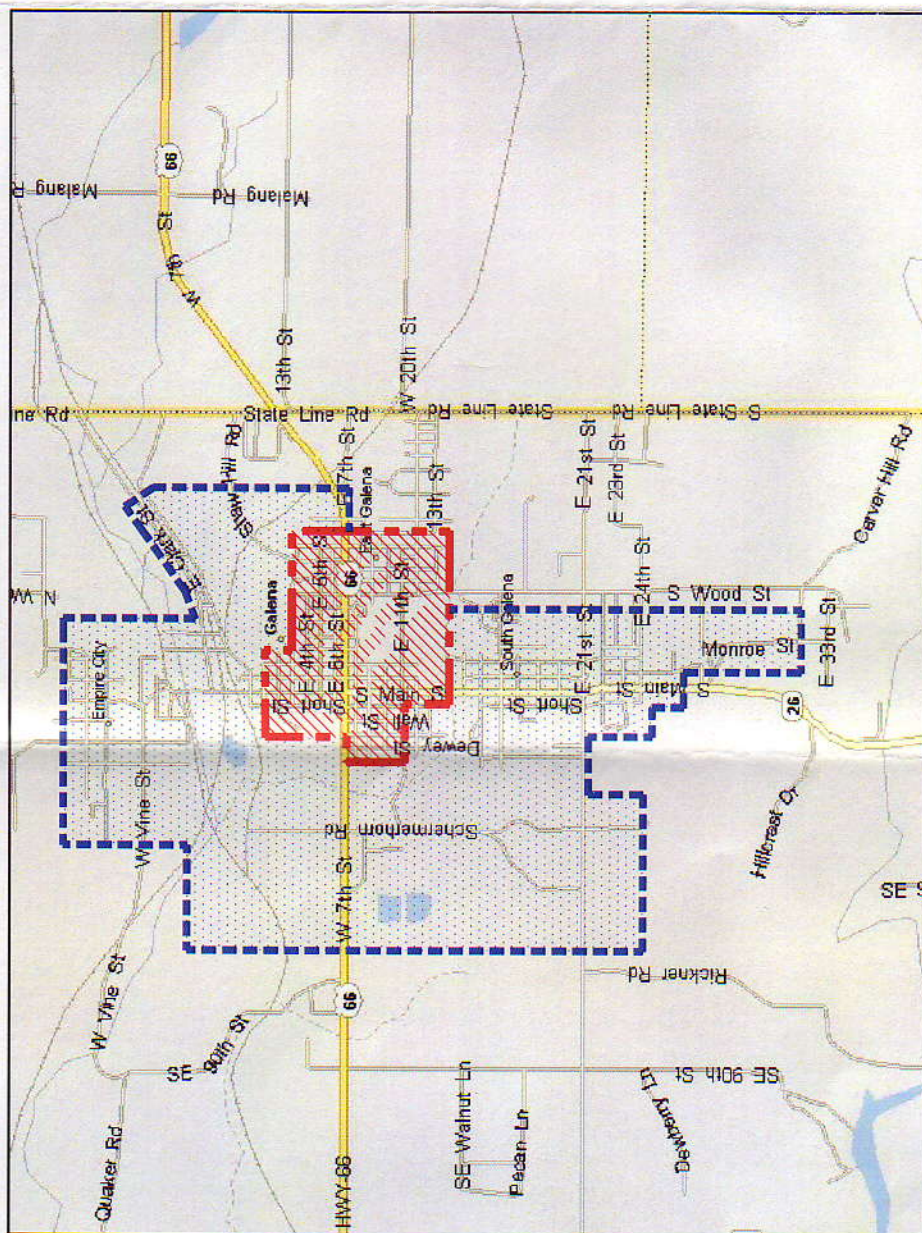
By: FCF

Drawing: GalenaEDA_(bxtquad.dwg)

NAME		DATE	DESCRIPTION	CLASS	DATE
PROJECT NO.					
NO.	DATE	NO.	DATE	NO.	DATE

**CONCEPTUAL
DRAWING
PRIORITIES**

SHEET NO. **1**



CITY OF GALENA, KANSAS
NO SCALE

NO SCALE

Conti No. 4