

1930 Constant Avenue
Lawrence, KS 66047-3724
February 2, 2009

Rose Marie Saunders
Senior Consultant and CDBG Administrator for the City of Burrton
Ranson Financial Consultants L. L. C.
200 West Douglas, Suite 600
Wichita, KS 67202

Dear Ms. Saunders:

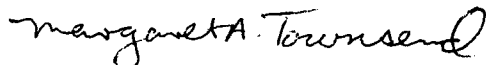
I was asked to review the City of Burrton plans for constructing and lining a cell in the wastewater treatment lagoon. The soils in the area are Crete silt loam Farnum loam, and Ladysmith silty clay. It may be useful to analyze the soils for salt content in order to determine if the area was used for a salt brine disposal lagoon in the past. The Burrton area is known for salt water problems due to improper oil-brine disposal in the past. Work by Groundwater Management District #2 (GMD2), the Kansas Corporation Commission (KCC), and the Kansas Geological Survey (KGS) resulted in a Report of the Burrton Task Force for the KS Board of Agriculture in 1984. Consultation with GMD2 and the KCC are recommended to look at this report and determine if disposal of the soil (if saline) is an issue.

The use of a liner, as mentioned in the review request is an absolute must given that the area of concern overlies the Equus Beds aquifer. I would suggest that GMD2 be consulted concerning depth to ground water and potential contamination issues as a result of lagoon leakage.

If the above issues are addressed then I see no problem with the project moving forward.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Margaret A. Townsend
Geohydrology Section

The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed CDBG/KDHE Wastewater Project.

☐ Army Corps of Engineers
☐ Kansas Biological Survey
☐ State Conservation Commission
☐ Kansas Corporation Commission
☐ Division of Water Resources/Kansas Department of Agriculture
☒ Kansas Geological Survey
☐ Kansas State Historical Society/State Historic Preservation Office
☐ Kansas Water Office
☐ Kansas Department of Wildlife & Parks
☐ U.S. Dept. of Agriculture, Natural Resources Conservation Service
☐ Kansas Department of Health & Environment
☐ U.S. Department of the Interior, Fish & Wildlife Services
☐ South Central Kansas Economic Development District
☐ Harvey County Emergency Preparedness

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

Comments: see attached letter

Recommended Action: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

☒ Clearance of project should be granted
☐ Clearance of project should not be granted
☐ Clearance of project should be delayed until the issues or questions have been clarified
☐ Clearance of project should not be delayed, but the applicant (in the application) should Address or clarify the questions or concerns indicated above.

Margaret A. Townsend KGS 2-2-09
Reviewer(s) Name Division/Agency/Commission Date

Project Title: Wastewater Treatment Facility Improvements; CDBG Project No. 09-PF-731; KDHE WPCRLF Project No. C20-1570-01

Applicant: City of Burrton, Kansas

Contact Person: Rose Mary Saunders, Ranson Financial Consultants, L.L.C.

Address: 200 West Douglas, Suite 600, Wichita, KS 67202

 Ranson
Financial Consultants, L.L.C.

January 21, 2009

Mr. William Harrison, Director
Kansas Geological Survey
University of Kansas
1930 Constant Avenue, Campus West
Lawrence, KS 66047

RE: City of Burrton, Kansas
Wastewater System Improvements
CDBG Project No. 09-PF-731

Dear Mr. Harrison:

The City of Burrton, Kansas has received funds from the Kansas Department of Commerce Small Cities Grant Program to use in conjunction with the KDHE Water Pollution Control Revolving Loan Fund for improvements to its wastewater treatment facility.

The proposed project will consist of excavating 25,000 cy of soil to construct a new primary cell which will also incorporate the installation 270,000 sf of 40 mil HDPE liner, installing one discharge structure, 208' of 10" DIP, 604' of 6" force main, three 6" gate and one check valve, 735' of 0'-6' trench and backfill, one each connection and flow structures, one flow control box including valves, two concrete splash pads, 1,865' of fencing, 5 acres of seeding and mulching and the removal of existing piping. Alternate to include the removal of sludge from the existing lagoons. The estimated project cost is \$899,260.

The proposed project is adjacent to the existing three-cell lagoon facility located in the North Half of Section 28 Township 23 South, Range West, Harvey County, Kansas. The approximate latitude and longitude of the lagoon facility is 38°01'34.91"N and 97°38'29.48W. . The attached maps show the existing lagoons and the proposed construction for your information.

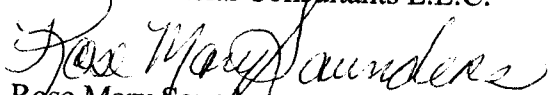
No persons will need to be relocated due to the construction of this project. If there are any special permits or conditions that apply, please let us know. We would appreciate receiving your comments by February 24, 2009 regarding this project. A Project Review Form has been enclosed for your convenience. If you wish to respond via email, my address is rsaunders@ransonfinancial.com.

Page Two
Kansas Geological Survey
January 21, 2009

If you have any questions regarding the construction, please contact Harlan Foraker, PE, Certified Engineering Design, PA at (316) 262-8808. If you have any questions regarding the City's CDBG application, please feel free to call me at (316) 264-3400.

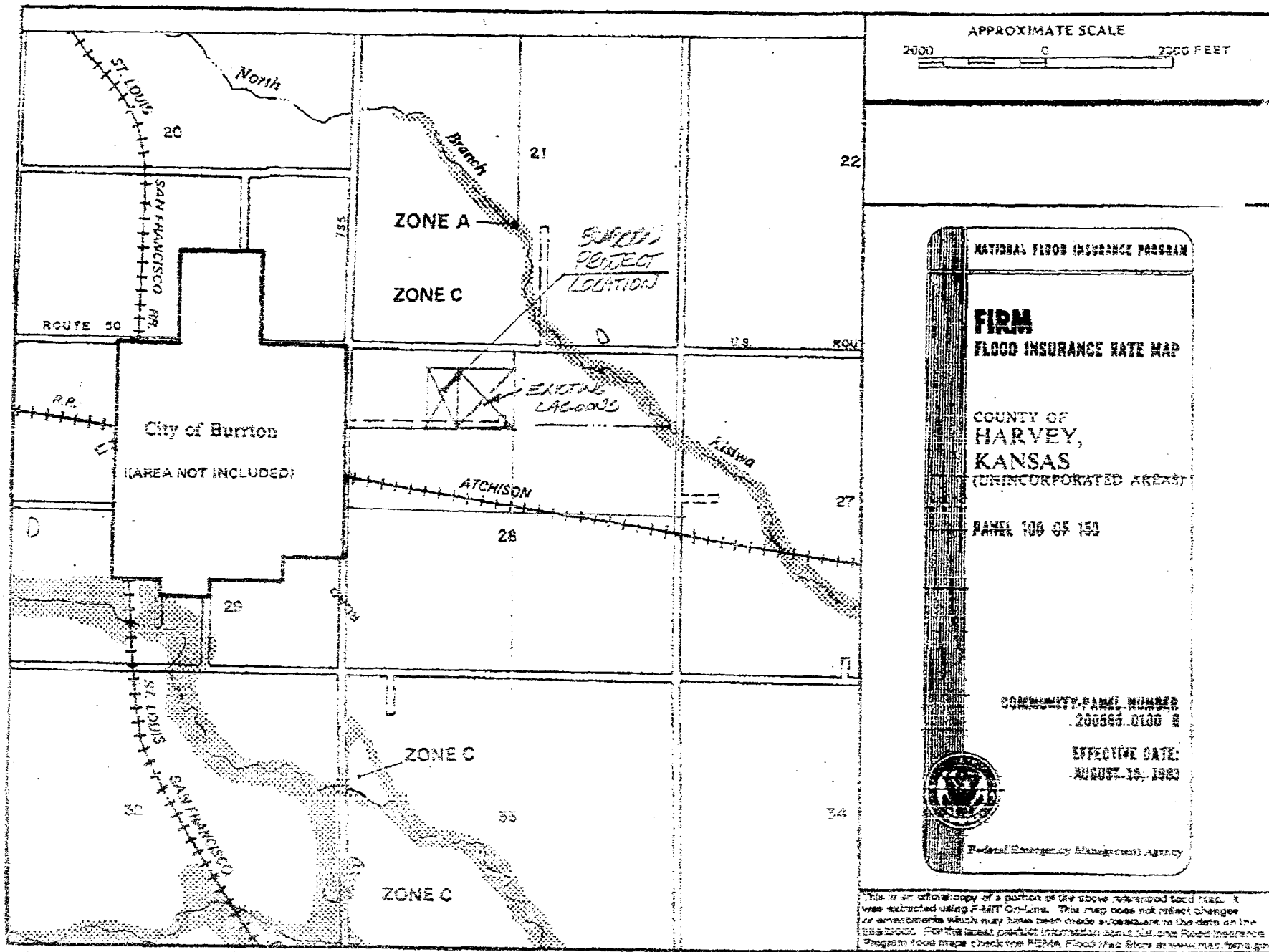
Sincerely,

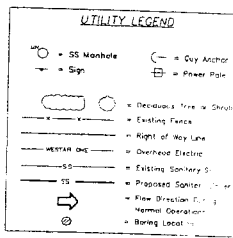
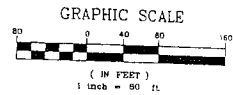
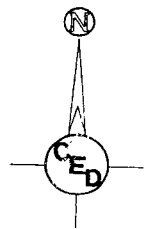
Ranson Financial Consultants L.L.C.

A handwritten signature in cursive script, reading "Rose Mary Saunders". The signature is written in dark ink and is positioned above the printed name.

Rose Mary Saunders
Senior Consultant and
CDBG Administrator for the
City of Burrton, Kansas

Enc.



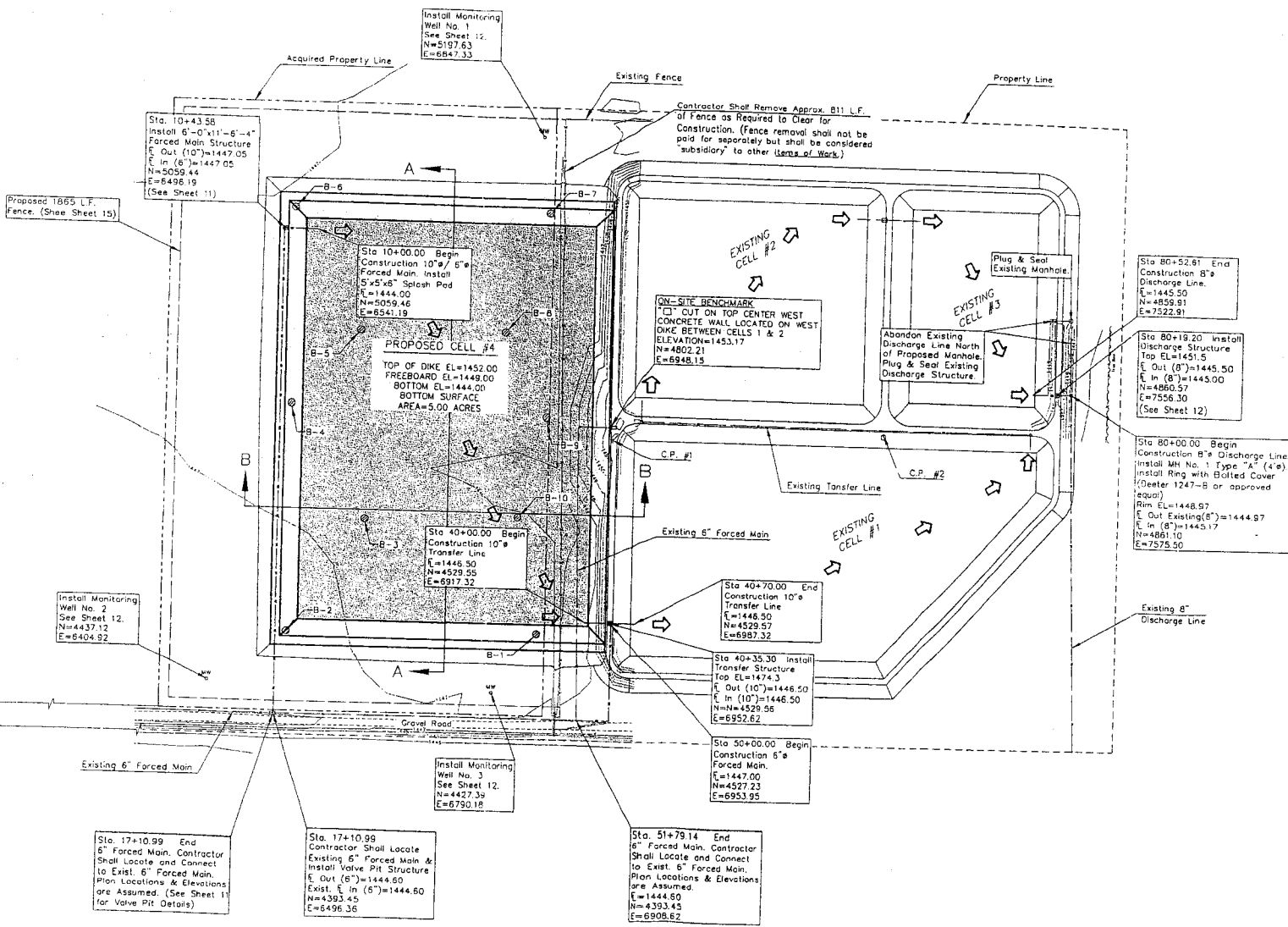


ON-SITE BENCHMARK
 "C" CUT ON TOP CENTER WEST CONCRETE WALL LOCATED ON WEST DIKE BETWEEN CELLS 1 & 2
 ELEVATION=1453.17
 N=4802.21
 E=6948.15

HORIZONTAL CONTROL POINTS

C.P. NO. 1	N 4784.55 E 6950.63	5/8" Rebar w/ Cap 57" S. 1/2" N.W. Cor. Cell 1 in W. Dike
C.P. NO. 2	N 4803.45 E 7321.94	Top Center of N. Wall Splitter Box between Cells 1, 2, & 3

UTILITIES SHOWN REPRESENT THE BEST INFORMATION AVAILABLE FOR DESIGN. ADDITIONAL UTILITIES MAY BE PRESENT ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY THE FAILURE TO DO SO.



CITY OF BURTON WASTEWATER LAGOON

SITE PLAN

BURTON, HARVEY COUNTY, KANSAS

CED PROJ. NO.: 20031034

CERTIFIED ENGINEERING DESIGN, P.A.

810 WEST DOUGLAS, SUITE C
 WICHITA, KANSAS 67203
 PH.(316)262-8808 FAX.(316)262-16

CED

DESIGNED: HOF	SCALE: 1"=80'	SHEET
DRAWN: BWS	DATE: 6/08	
CHECKED: HOF	CED FILE: BURTON BASE.DWG	TOTAL

Ranson
Financial Consultants, L.L.C.

February 9, 2009

Ms. Margaret A. Townsend
Geohydrology Section
Kansas Geological Survey
1930 Constant Avenue
Lawrence, KS 66044

RE; City of Burrton, Kansas
Proposed Wastewater System Improvements
CDBG Project No. 09-PF-731

Dear Ms. Townsend:

Thank you for your response regarding the above project. Enclosed, for your information, is a copy of the soils report that the City had completed in anticipation of utilizing the HDPE liner for the new lagoon.

I have also forwarded a copy of your letter to the engineer for him to follow your recommendations regarding the disposal of soil.

If you have any questions, please feel free to contact our office.

Sincerely,

Ranson Financial Consultants, L.L.C.



Rose Mary Saunders
Senior Consultant and
Burrton's CDBG Administrator

Enc.

C: City

Other documentation not scanned.
Available in open file.