KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

May 23, 2005

Devin P. Wilson
Larkin Group
9200 Ward Parkway, Suite 400
Kansas City, MO 64114

Re: Storm Drainage Improvements
Roeland Park, Kansas
SMAC #RC-12-013
Larkin Project No. KC03-0098.06

Dear Devin Wilson,

I have received your request for comment by the Kansas Geological Survey (KGS) on the application for an EPA Special Infrastructure Grant by the City of Roeland Park, Kansas. The funding will be used for stormwater drainage improvements to a tributary of Rock Creek. The project is located in the South ½ of Section 4; Tier 12S, Range 25E, Johnson County, Kansas.

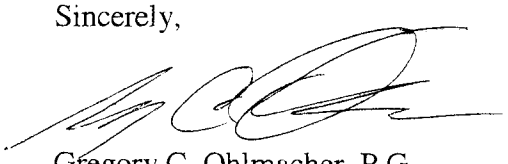
I examined the materials that you provided along with a geologic report and map of Johnson County, Kansas (O'Connor, 1971, KGS Bulletin 203) and *Caves of Kansas* (Young and Beard, 1993, KGS Educational Series 9). The Kansas Geological Survey has no knowledge of geologic hazards at the stormwater drainage improvement site in the cities of Roeland Park and Fairway. However, karst problems exist in one of the geologic units elsewhere in Johnson County. Two geologic units are exposed in the area of the drainage improvements. Near the mouth of the tributary, the Lane Shale is exposed. North of about 54th Street Terrace, the drainage way traverses the Wyandotte Limestone formation. Within the Wyandotte Limestone is the Argentine Limestone member. A member is an identifiable unit within a formation, which is the mapping unit. Young and Beard report seven caves in the Argentine Limestone in Miami and Johnson Counties (pp. 15-16). James McCauley (KGS, personal communication) has observed sinkholes in a region mapped as the Argentine Limestone near Stanley, Johnson County. Thus, the Argentine Limestone is known to have karst problems. It is interesting that the two sinkholes that are mentioned in your report (#4 & #7) are near the contact between the Wyandotte Limestone and the Lane Shale. The current interpretation of these sinkholes as pipe collapses may be correct; however, karst problems may need to be addressed in areas where the stormwater drainage system traverses the Wyandotte Limestone.

I had an additional concern about erosion in the reach of the tributary from Shawnee Mission Parkway to Rock Creek, but the extension of the stormwater drainage through this reach resolves this issue.

The publications mentioned above are available from Publication Sales at the Kansas Geological Survey and a GIS version of the Johnson County Geological Map is available through the Data Access and Support Center (DASC) at http://gisdasc.kgs.ku.edu/.

If you have any questions about my comments, feel free to contact me at (785) 864-2194 or ohlmac@kgs.ku.edu.

Sincerely,



Gregory C. Ohlmacher, P.G.
Associate Scientist and Engineering Geologist

LARKIN GROUP INC.

CONSULTING ENGINEERS
9200 Ward Parkway, Suite 400
Kansas City, Missouri 64114
Phone: 816-361-0440
Fax: 816-361-0045
e-mail: kcmail@larkin-grp.com

May 13, 2005

Dr. Lee Gerhard
Kansas Geological Survey
University of Kansas
1930 Constant Ave.
Campus West
Lawrence, Kansas 66047

Re: Storm Drainage Improvements
Roeland Park, Kansas
SMAC #RC-12-013
Larkin Project No. KC03-0098.06

Dear Dr. Gerhard:

The City of Roeland Park has applied for an EPA Special Infrastructure Grant for partial funding of a stormwater drainage improvements project. As required by the National Environmental Policy Act of 1969 as amended, we are requesting your review and comment for the proposed project. Please refer to Figure 2 for the extents of the project that will be constructed using federal funds.

Project Description

The City of Roeland Park has retained Larkin Group for the study and design of a drainage improvements project. The proposed project is roughly located between Roe Avenue on the west, Buena Vista on the east, between Sycamore on the north and Shawnee Mission Parkway on the south. The project is located in the South ½ of Section 4, Town 12S, Range 25E, Johnson County, Kansas. The project is needed to help alleviate residential and street flooding in the area. Please refer to the enclosed "Preliminary Engineering Report" and the "Supplement to Preliminary Engineering Study" for a detailed description of existing conditions and problems, alternative analysis, and a description of proposed solutions for this project. In general, a larger capacity inlet, pipe, and concrete box system will replace the existing, inadequate-capacity enclosed system, to help alleviate street and residential flooding.

As required by NEPA, other agencies have also been contacted. Please refer to the enclosed "Agency Distribution List" for additional agencies that have been contacted for review and comment.

P:\kc03-0098_06\NEPA Prep 2005\Agency Form Letters\Gerhard.doc

This letter serves as a solicitation for both agency comments, and a request for clearance for this proposed project. Enclosed please find the following figures for your reference:

Figure 1: Vicinity Map
Figure 2: Project Extents
Figure 3: Preliminary Engineering Report (PES) with Supplement
Figure 4: PCN and NWP 12 & 13 Authorization
Figure 5: Agency Distribution List

Please provide all concerns and comments in writing to me. If you have any questions or need additional information during your review of this project, please contact me, or the project manager for Larkin Group, Andrew Smith at (816) 361-0440. Thank you for your timely consideration and review of the project.

Sincerely,

Devin Wilson

Devin P. Wilson
Environmental Scientist
Larkin Group Inc.

DPW/arf

Enclosures:
Fig. 1 Vicinity Map
Fig. 2 Project Extents
Fig. 3 PES with Supplement
Fig. 4 PCN and NWP 12 & 13 Authorization
Fig. 5 Agency Distribution List

cc: Project File

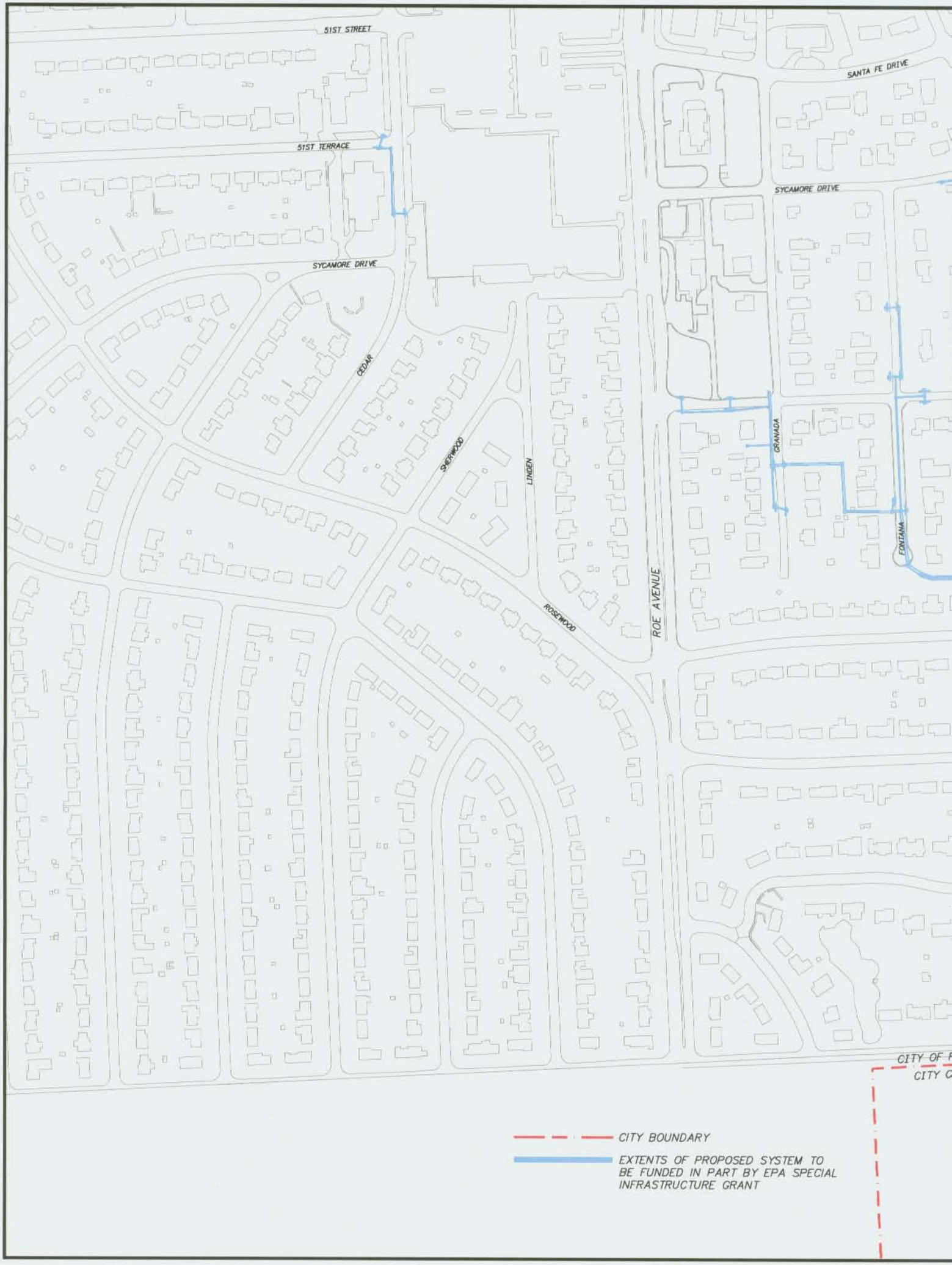
LARKIN GROUP INC
9200 WARD PARKWAY, SUITE 400
KANSAS CITY, MISSOURI 64114
(816) 361-0440

CITY OF ROELAND PARK, KANSAS
RC-12-013 DRAINAGE IMPROVENEMTS
TOWN 12S, RANGE 25E, S 1/2 SEC 4

SHAWNEE, KS QUAD 1991

Date: 04/28/05
Drawn By: DPW
Checked by: DPW
Approved by: DPW
File: RC-12-013_Vicinity
Job# KC03-0098.06

FIG 1


51ST STREET
51ST TERRACE
SYCAMORE DRIVE
CEDAR
SHERWOOD
LINDEN
ROSEWOOD
ROE AVENUE
SANTA FE DRIVE
SYCAMORE DRIVE
GRANADA
FONTANA
CITY OF
CITY C
CITY BOUNDARY
EXTENTS OF PROPOSED SYSTEM TO BE FUNDED IN PART BY EPA SPECIAL INFRASTRUCTURE GRANT

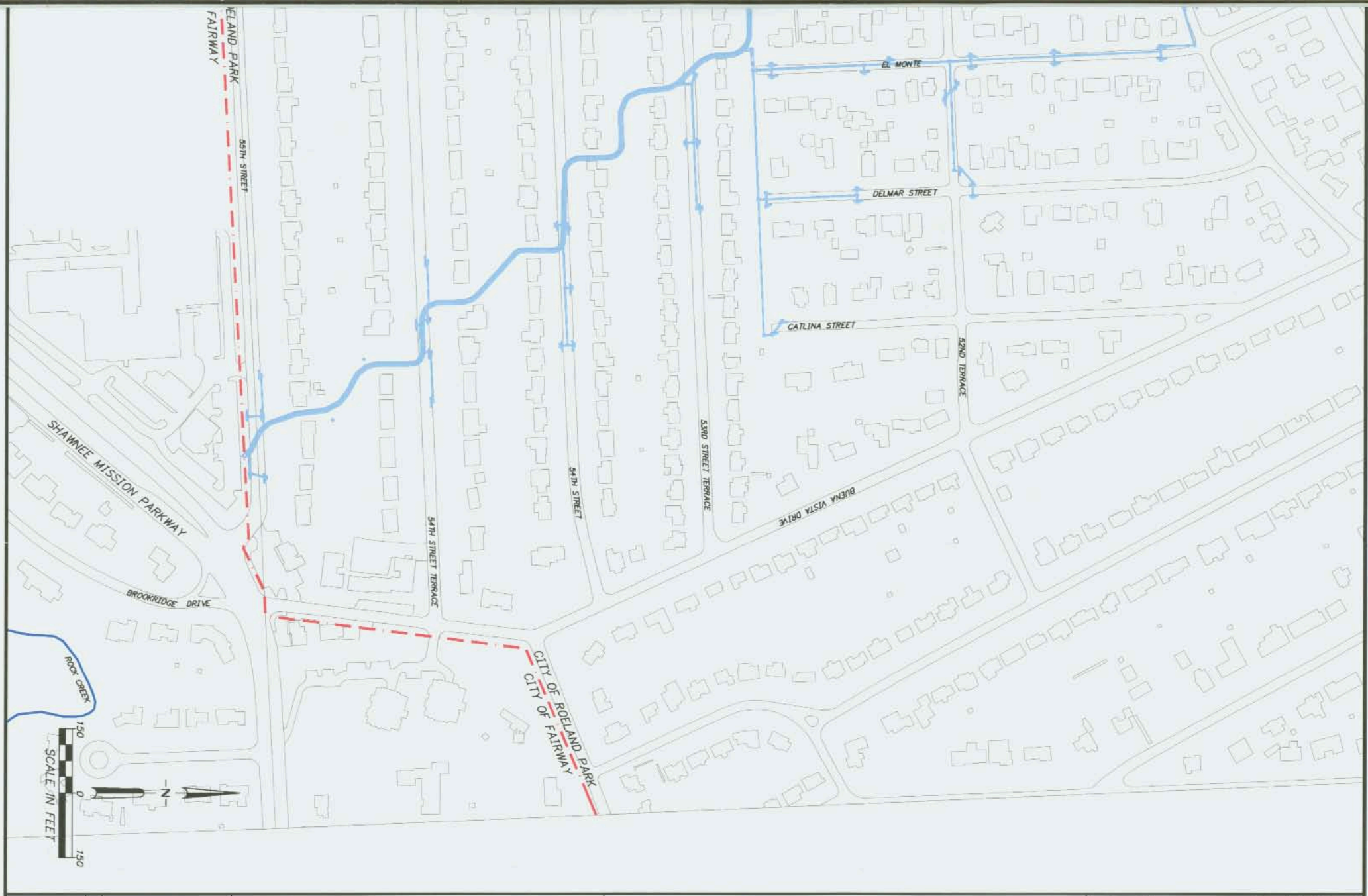


FIG 2

Job# KC03-0098.06

STORM DRAINAGE IMPROVEMENTS
ROELAND PARK KANSAS
SMAC #RC-12-013

PROJECT EXTENTS

KANSAS CITY OFFICE:
9200 Ward Parkway
Suite 400
Kansas City, MO 64114
Phone: 816-361-0440
Fax: 816-361-0045

LARKIN GROUP INC

Issued:	Notes:	Drawn:	Checked:	Approved:
		AJM	GAH	

Filename: P:\KC03-0098.06\NEPA Prep 2005\NEPA_FIGURE.dwg

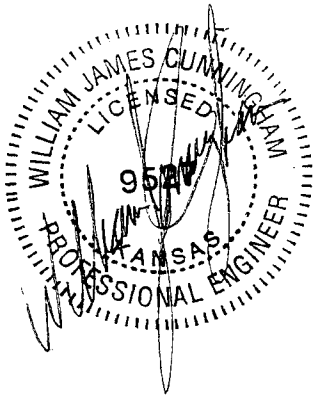
Original is ~~at~~ in Gregory Ohlmacher's office

PRELIMINARY ENGINEERING REPORT

FOR

SMAC PROJECT #RC-12-013 ROELAND PARK, KANSAS

DECEMBER 2002



LARKIN GROUP INC.

Larkin Project No. KC02-0098.0200

Original is in Gregory Chilmacher's Office

Figure 4

Preconstruction Notification (PCN)
and Corps Response
with NWP 12 & 13 Authorization

Roeland Park, Kansas
Storm Drainage Improvements Project
SMAC #RC-12-013
Larkin Project No. KC03-0098.06

Figure 5

Agency Distribution List for Roeland Park, Kansas
Storm Drainage Improvements Project SMAC #RC-12-013
Larkin Project No. KC03-0098.06

Kansas Dept. of Wildlife & Parks
Environmental Services Section
512 SE 25th Avenue
Pratt, KS 67124-8174

State Conservationist
Natural Resource Conservation Service
760 S Broadway Blvd.
Salina, KS 67401-4604

Kansas State Historical Society
6425 SW 6th Avenue
Topeka, KS 66615

Kansas Geological Survey
University of Kansas
1930 Constant Ave.
Campus West
Lawrence, KS 66047

Kansas Biological Survey
University of Kansas
2041 Constant Avenue
Lawrence, KS 66047

U.S. Army Corps of Engineers
700 Federal Building
601 E. 12th Street
Kansas City, MO 64106

Environmental Protection Agency
Region VII
NPDES & Facilities Management
901 N. 5th Street
Kansas City, KS 66101

Kansas Water Office
109 SW 9th, Suite 200
Topeka, KS 66612

Kansas Dept. of Agriculture
Division of Water Resources
109 SW 9th Street
Topeka, KS 66612

Executive Director
State Conservation Commission
109 SW 9th Street
Topeka, KS 66612

U.S. Dept. of the Interior
Fish & Wildlife Service
Kansas State Office
315 Houston, Suite E
Manhattan, KS 66502

Kansas Corporation Commission
Wichita Office
130 S. Market, 2nd Floor
Wichita, KS 67202

Environmental Protection Agency
Office of Federal Activities
Aeriel Rios (2252A)
1200 Pennsylvania Ave. N.W.
Washington, D.C. 20004

City of Roeland Park
4600 W51st St
Roeland Park, KS 66205

NEPA Engineer
Environmental Protection Agency
Region VII
901 North 5th Street
Kansas City, KS 66101-2907