



Federal Emergency Management Agency

Washington, D.C. 20472

March 20, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Cindy S. Rosenthal
Mayor, City of Norman
Post Office Box 370
Norman, OK 73070

IN REPLY REFER TO:

Case No.: 11-06-4261P
Community Name: City of Norman, OK
Community No.: 400046
Effective Date of
This Revision: **August 1, 2012**

Dear Mayor Rosenthal:

The Flood Insurance Study Report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5127, or the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

Sincerely,

Stuart W. Rooney, CFM, PMP, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

For: Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Rate Map
Annotated Flood Insurance Study Report

cc: Mr. Rusty Sullivan,
Commissioner District 3
Cleveland County

Mr. Shawn O' Leary
Public Works Director
City of Norman

Mr. Ole M. Marcussen, P.E.
SMC Consulting Engineers, P.C

RECEIVED
MAR 27 2012
PW/Administration



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Norman Cleveland County Oklahoma	CULVERT FILL	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 400046		
IDENTIFIER	Cleveland County Justice Center	APPROXIMATE LATITUDE AND LONGITUDE: 35.274, -97.482 SOURCE: Precision Mapping Streets DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 40027C0190H DATE: September 26, 2008	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 26, 2008 PROFILES: 131P AND 132P SUMMARY OF DISCHARGES TABLE: 3	

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCES AND REVISED REACHES

Little River Tributary G - from approximately 280 feet downstream of 24th Avenue NW to approximately 100 feet downstream of Interstate 35.
Unnamed Tributary to Little River Tributary G - from the confluence of Unnamed Tributary to Little River Tributary G with Little River Tributary G to approximately 70 feet downstream of Interstate 35.

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Little River Tributary G	Zone A	Zone AE	YES	YES
	No BFEs*	BFEs	YES	NONE
	Zone A	Zone A	YES	YES
Unnamed Tributary to Little River Tributary G	Zone A	Zone AE	YES	YES
	No BFEs	BFEs	YES	NONE
	Zone A	Zone A	YES	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Ste 204, Hanover, MD 21076. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business.nfip>.

Stuart W. Rooney, CFM, PMP, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that any permits required by Federal or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Ste 204, Hanover, MD 21076. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Frank Pagano
Director, Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, TX 76209
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a revised FIRM and FIS report for Cleveland County, Oklahoma, in our physical map revision format; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Revised preliminary copies of the countywide FIRM and FIS report, which present information from the effective FIRMs and FIS reports for your community and other incorporated communities in Tulsa County, were submitted to your community for review on September 30, 2011. We will incorporate the modifications made by this LOMR into the revised countywide FIRM and FIS report before they become effective. If the modifications are not incorporated, we will issue a letter to revalidate the modifications made by this LOMR and revise the newly effective FIRM and FIS report.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Ste 204, Hanover, MD 21076. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

A handwritten signature in black ink, appearing to read "Stuart W. Rooney".

Stuart W. Rooney, CFM, PMP, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

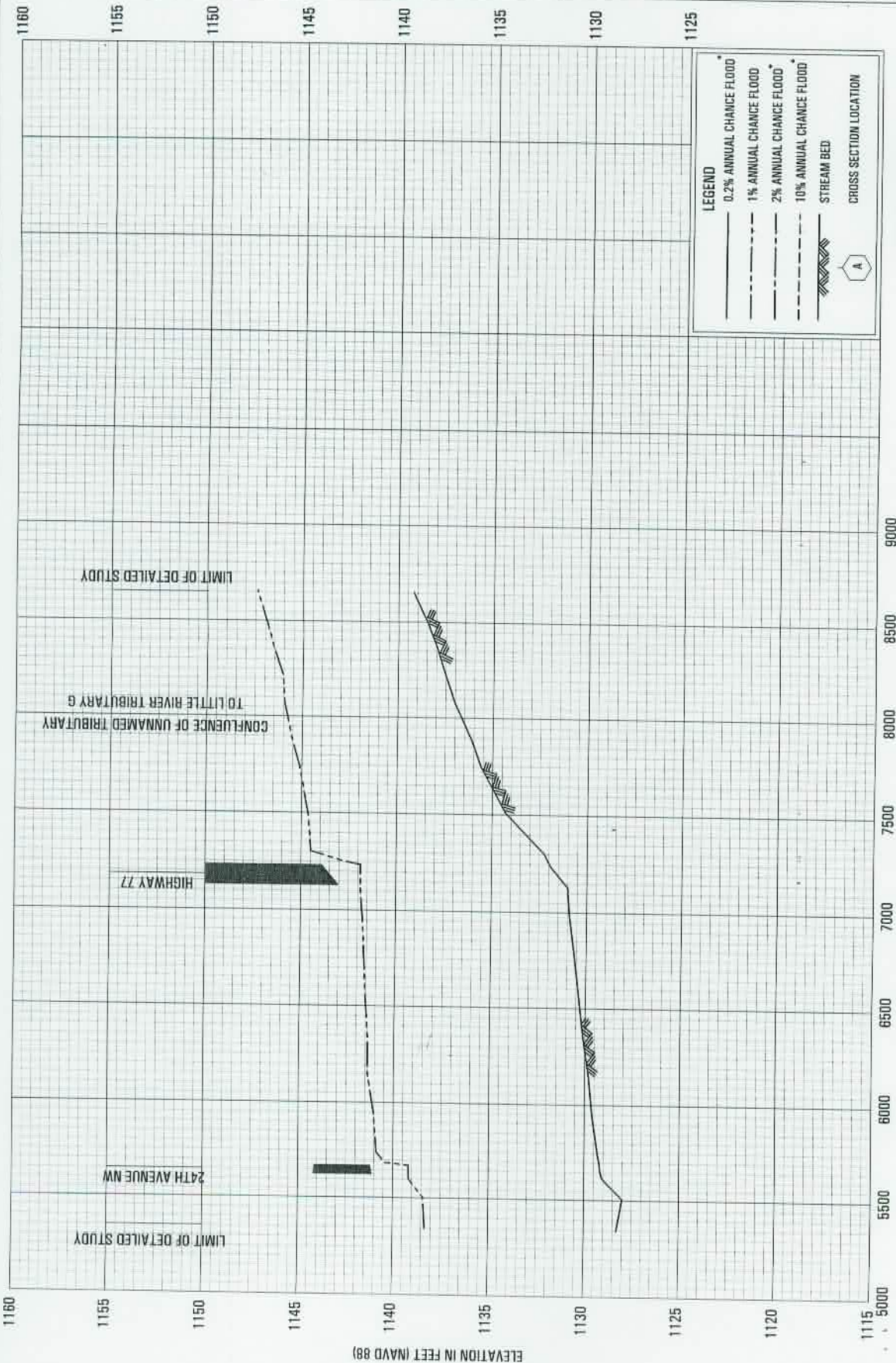
Table 3. Summary of Discharges (Cont'd)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second)			
		10-percent	2-percent	0.2-percent	
TRIBUTARY 1 OF CANADIAN RIVER TRIBUTARY 1 At Southwest 149th Street At Highway 37	1.98 1.11	807 693	1,446 1,226	1,786 1,569	2,643 2,327
TRIBUTARY 2 OF CANADIAN RIVER TRIBUTARY 1 At Pennsylvania Avenue At Western Avenue	2.66 0.82	890 499	1,446 898	1,786 1,105	2,643 1,628
TRIBUTARY 3 OF CANADIAN RIVER TRIBUTARY 1 At Southwest 134th Street At Southwest 119th Street	1.57 0.48	758 377	1,368 681	1,692 836	2,507 1,228
TRIBUTARY 4 OF CANADIAN RIVER TRIBUTARY 1 At Southwest 119th Street	1.11	655	1,189	1,471	2,178
LITTLE RIVER TRIBUTARY G At 24th Avenue Northwest Upstream of confluence with Unnamed Tributary to Little River Tributary G	2.73	*	*	3,630	*
UNNAMED TRIBUTARY TO LITTLE RIVER TRIBUTARY G Just upstream of confluence with Little River Tributary G	2.43	*	*	3,420	*
	0.69	*	*	1,568	*

*Information not available

REVISED DATA

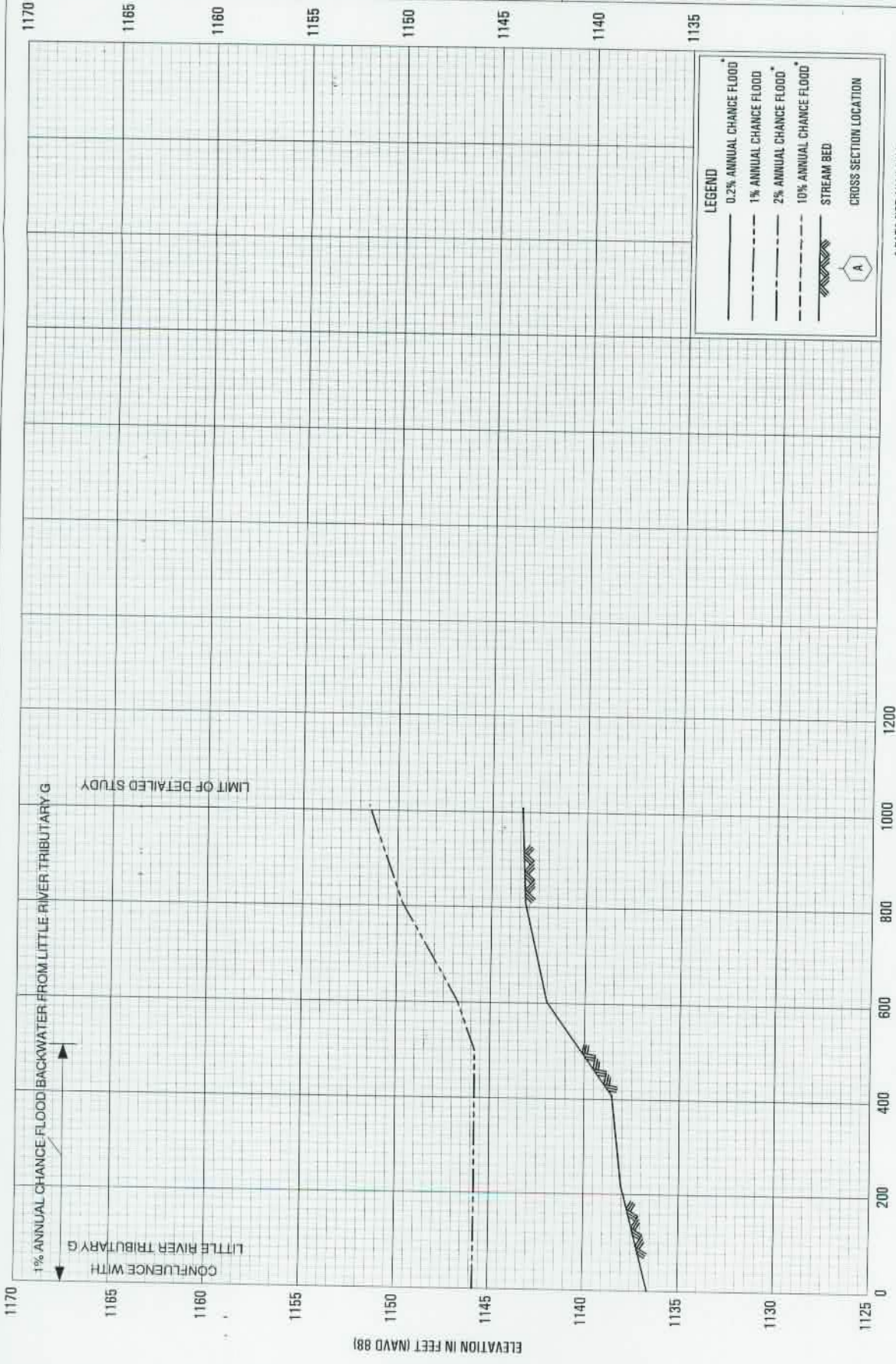
**REVISED TO
REFLECT LOMR
EFFECTIVE: August 1, 2012**



* DATA NOT AVAILABLE
 REVISED TO
 REFLECT LOWR
 EFFECTIVE: August 1, 2012

131P

FLOOD PROFILES



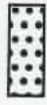


* DATA NOT AVAILABLE
REVISED TO
REFLECT LOMR
EFFECTIVE: August 1, 2012

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH LITTLE RIVER TRIBUTARY G

ELEVATION IN FEET (NAVD 88)

MAP LEGEND

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  0.2% annual chance (500-Year) Floodplain



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0190H

FIRM FLOOD INSURANCE RATE MAP CLEVELAND COUNTY, OKLAHOMA AND INCORPORATED AREAS

PANEL 190 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLEVELAND COUNTY UNINCORPORATED AREAS	400475	0190	H
MOORE, CITY OF	400044	0190	H
NORMAN, CITY OF	400046	0190	H
OKLAHOMA CITY, CITY OF	400378	0190	H

**REVISED TO
REFLECT LOMR
EFFECTIVE: August 1, 2012**

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown below should be used on insurance applications for the subject community.



MAP NUMBER
40027C0190H
MAP REVISED
SEPTEMBER 26, 2008

Federal Emergency Management Agency

