

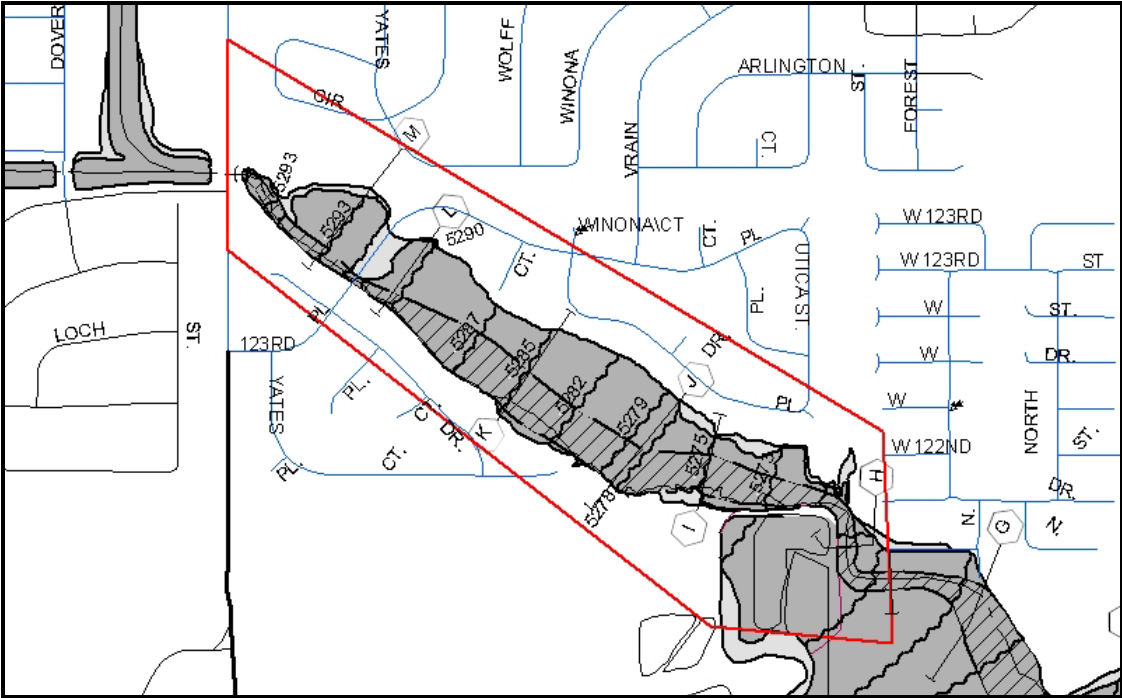


Federal Emergency Management Agency
Washington, DC 20472

Urban Drainage and Flood Control District
Denver, Colorado 80211



Local Evaluation of Requests for Letters of Map Change – Year Three



Final Report
FEMA Grant No. EMD-2003-GR-0380
March, 2005

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of Map Change – Year Three**

**By
Bill DeGroot, PE,
Manager, Floodplain Management Program
Urban Drainage and Flood Control District**

March, 2005

Introduction

The Urban Drainage and Flood Control District (District) is a regional agency established by the Colorado General Assembly to assist local governments in the Denver Metropolitan Area with multi-jurisdictional drainage and flood control problems. The District includes 1608 square miles, and all or parts of 40 cities and counties.

In early 2001, the Federal Emergency Management Agency (FEMA) and the District entered into an agreement to conduct a pilot project under FEMA's Cooperating Technical Partners (CTP) Program. The agreement called for the District to review requests for Letters of Map Change, specifically Conditional Letters of Map Revision (CLOMR) and Letters of Map Revision (LOMR) for the 33 communities within the District that are participating in the National Flood Insurance Program (NFIP). The project was funded by a \$100,000 grant administered through FEMA Region 8. A report on the results of the first year of the pilot project ("Final Report, FEMA Grant No. EMD-2001-GR-0181, Local Evaluation of Requests for Letters of Map Change") was provided to FEMA in February, 2003.

FEMA has subsequently funded second, third and fourth years of this pilot project at \$180,000 for each year. A report on the second year ("Local Evaluation of Requests for Letters of Map Change – Year Two") was provided to FEMA in December, 2003. The two reports are available at www.udfcd.org.

This report builds on the findings of the previous work, and details additional findings. The reader is encouraged to read this report in conjunction with the previous reports to obtain a complete understanding of this effort.

Overview of the Process

The District has a small staff, and relies heavily on the private sector to provide services as needed. In this case, the District retained Icon Engineering, Inc. (Icon) to provide technical review and drafting support for the CLOMR and LOMR requests. The District managed the contract with Icon, coordinated all aspects of the review process, and kept track of budget and time line issues.

FEMA's National Service Provider, (NSP), Michael Baker Jr., Inc., continued to keep the Management Information System (MIS) current, as it does for all other cases. The NSP prepared the final LOMR enclosures, completed all final mailings of letters and public notices, and otherwise provided support to FEMA staff.

The process requires each applicant to submit duplicate copies of the request to FEMA and the District, and to submit the appropriate fee to FEMA. When the District receives a case it immediately notifies the NSP and FEMA of the request by e-mail; including the name and address of the requestor, communities affected, FIRM panels affected, affected drainageway and identifying name. The NSP enters the information into the MIS and assigns a case number by return e-mail. When the fee is received the NSP notifies the District and Icon, also by e-mail. The District transmits the request to Icon, usually by courier.

Icon completes an initial review of each request for adequacy, and prepares the appropriate response letter from form letters provided by FEMA. The letter, which either states that sufficient information was included to begin a detailed review, or that additional information (and possibly the fee) is required, is e-mailed to the District for review, signature and mailing to the requestor. When Icon determines that sufficient information has been submitted to support the request a detailed technical review is performed. At the conclusion of the review Icon prepares a letter from form letters provided by FEMA. If more information is required the letter requesting the information is e-mailed to the District for review, signature and mailing. The letterhead for the above letters was designed by FEMA, and includes the names and logos of both organizations and the address and phone numbers for the District.

If Icon concludes that the requested CLOMR or LOMR is justified, it prepares a draft CLOMR or LOMR letter and e-mails it to the District, and sends the case file to the District by courier. The District reviews the draft letter and the case file, makes any adjustments to the draft that are deemed appropriate, and forwards the letter by e-mail to FEMA and the NSP, and the case file to the NSP. FEMA and the NSP process the case from that point on until the final letters are signed and mailed. All CLOMRs and LOMRs are on FEMA letterhead and are signed by a FEMA representative.

FEMA Region 8 provided periodic partial advances over the course of the project. The amount and frequency of each advance was dictated by the number and complexity of requests received.

DFIRM Maintenance Pilot Project

The District would like to someday assume map maintenance responsibilities for the Digital Flood Insurance Rate Maps (DFIRM) for the seven counties within our service area through the CTP program. In order to gain needed expertise in this area, the District requested and received an amendment to the grant scope of work which allowed us to develop and execute a pilot project to perform map maintenance activities in order to determine the best procedures for performing map maintenance, and identify any unusual problems or situations which may occur.

The City and County of Broomfield was selected for the pilot project because their DFIRM had become effective during the year, and we had already processed three LOMRs that were not reflected on the effective maps, and more were in the pipeline. We modified our scope of work with Icon to have them conduct the pilot map maintenance project for four completed LOMRs, one LOMR in progress and one hypothetical new floodplain.

Icon has prepared a report, "DFIRM Map Maintenance Pilot, City and County of Broomfield," January 26, 2005, which documents the results of this pilot. The report is being submitted with this report.

Judging Performance of the LOMC Pilot Project

The District received 43 requests for LOMCs during the period of the grant. Because of the finite time frame allowed by the grant, and the fact that performance is somewhat controlled by the applicants, due to the timeliness of their responses to requests for additional information, it has not been possible to complete reviews of all of the requests received within the grant period. Three cases assigned to Icon during year two were transferred to this third year grant, making a total of 46 cases reviewed under this grant. Ultimately, three cases were dropped, and one case was transferred to the year four grant, leaving 42 cases completed under this grant.

Quantifiable items, specifically times of performance and expenditures, have been compiled and are compared to performance standards specified in the agreement. Summaries of the performance during the third year pilot are provided below.

Evaluation of Timeline Performance

One of the goals in the agreement that can be measured is timelines. The two time requirements are a five-working day response from when either an initial request is received or additional data is received; and a 60-calendar day response from when all data has been received to providing a recommendation to FEMA. The District generally met the five-day response requirement. A few isolated instances continued to occur, generally as a result of staffing problems associated with vacations or three day weekends

Forty-two cases were completed and judged against the 60-day goal for making a final recommendation to FEMA after receipt of all data. In all 42 cases the goal was met. The shortest review periods from receipt of all data were five, 12, 18 and 24 days. The longest were 59 and 57 (twice) days. The average time was 39 calendar days. This compares to an average of 22 calendar days in the first year and 29 in the second year.

The NSP and FEMA took an average of 41 days to complete their portion of the process and mail the final executed letter and any attachments. At some time during the year the NSP started a reduced level of review of our work product, and their time dropped significantly. The accompanying Table 1 - Timeline Performance, provides the times of performance for each case.

Evaluation of Financial Performance

The other quantifiable item is the financial performance. Table 2 - Financial Summary, presents an overview of the financial performance for this grant. This financial evaluation includes the 43 cases started during the grant period, plus the costs of the three cases transferred from year two that were expended in year three. For the 43 cases FEMA received fees totaling \$155,700. Four cases were fee exempt, including three cases from the Corps of Engineers. The DFIRM maintenance pilot project was included as a lump sum of \$18,500.

Icon provided the technical review for all 46 cases. For each of the cases, the District authorized Icon an expenditure equal to the fee charged by FEMA for that type of request. Of the 46 cases, eight (including the three transfers) cost more than the FEMA fee, totaling \$14,992.93; and 38 cost less than the FEMA fee, totaling \$25,492.93. For the 46 cases, Icon was paid \$161,500. These figures include the amounts authorized and expended during the grant period for the case which was transferred to the year four grant. Table 3 Financial Analysis presents a summary of each case.

Benefits of Local Reviews

In addition to the quantifiable measures discussed above, during the first year grant, District and Icon staff identified eight non-quantifiable benefits of doing the reviews locally. A listing of those benefits, with definitions, is repeated below.

First year results

Meeting(s) with applicant before request submitted. Meet with the applicant and the local jurisdiction to resolve questions prior to submittal of the request.

Meeting(s) with applicant during review of request. Meet with the applicant and the local jurisdiction to resolve issues identified during the review of a request.

Local knowledge. Includes reviews of the project during the local approval process, such as zoning and platting; knowledge of adjoining properties and their potential effect on the request; and District capital or maintenance projects.

District studies. Includes completed or in-progress master plans (MP) and flood hazard area delineation studies (FHAD). In several cases the FIRMs have Zone A areas, which have been taken from FHADs based on future hydrology. We are able to provide the hydraulic models and the hydrology to assist the applicant in preparing an application.

District Maintenance Eligibility Program (MEP). Participation in the District's maintenance eligibility program means the District has approved the construction drawings for conformance to our criteria, and assures the local jurisdiction that the finished facilities can receive District maintenance assistance. The District visits every site to confirm construction. The District has an informal network of local government inspectors as well.

Time extensions. Warnings given to applicants when their time to respond to requests for additional data is near expiration.

Site visits. Visit the site as necessary to evaluate special situations, or to confirm construction conformance to approved plans.

Local exchange of data. On occasion a request will be lacking an item, such as a disc with hydraulic models or a signed Form 1. A phone call can elicit an immediate response and the review can continue uninterrupted. This often avoids an official letter, and occurs without stopping the "review clock."

Second year results

During the second year grant we identified two additional benefits of local reviews:

LOMRs based on CLOMRs. One additional benefit that became increasingly valuable during the second year was that of reviewing requests for LOMRs that were based on CLOMRs we had prepared. The advantages were that we had the institutional knowledge and continuity between the CLOMR and the LOMR requests; and we had the entire case file on site, which facilitated a quicker start on the review than when we had to request the file from the MCC.

Effective models. A related development has been a number of requests received from potential LOMC applicants for effective hydraulic models from LOMRs completed by us. After consultation with Kevin Long, FEMA Washington, we agreed that the District could provide the models and charge a reasonable cost for them; and, alternatively, the model(s) could be requested from the MCC according to current practice.

Third-year results

During the third year grant we identified two additional benefits of local reviews:

Coordination between active LOMCs and communities. During this period we had three active LOMRs adjacent to each other on City Park Channel in Westminster and Broomfield. Each request was a stand alone submittal. We were able to coordinate the three developers and two local governments so that the three LOMRs fit together.

DFIRM maintenance. There are cost and time savings to be had in doing LOMR reviews and DFIRM maintenance at the same time. The DFIRM files are completed and ready for the next update, and the LOMR annotated map comes from the DFIRM.

Other Third Year Experiences

Our third year experiences continued to reinforce the benefits of local reviews identified in the first two years. For example:

- Approximately 65% of the cases also went through the District's maintenance eligibility program, as discussed above.
- District studies that were the basis of FIRM floodplains continued to be valuable resources in reviewing many of the cases.
- In two cases this year site visits revealed that the as-built data submitted for LOMR requests did not reflect true field conditions, and new data was required before we would continue the review.
- We received several more LOMR requests that were based on CLOMRs we had processed, which makes the LOMR reviews easier due to continuity with the reviewers.

Some development projects are able to avoid the requirement for a CLOMR when the FIRM has only a Zone A identified. The District advocates CLOMRs as an additional way to identify potential problems before construction, rather than after. In one case, a LOMR review identified a levee that did not meet FEMA standards, and the developer is now having to propose modifications to his already completed project. A CLOMR review could have identified the potential problem ahead of time.

We had one case where a contractor faced a significant financial penalty for constructing a project but failing to get a LOMR within a specified period. We were able to expedite the review and get the LOMR issued in time.

Observations and Recommendations

We have repeated below the recommendations and observations taken from the first and second year report, followed by additional observations and recommendations from the third year.

First Year

A number of factors were identified that should be considered by FEMA prior to any final decision. These are in addition to the timeline, budget and local review benefits discussed earlier. In no particular order they are presented below.

Training. The individual at Icon who was their lead engineer had previous experience working for the MCC, and was ready to hit the ground running on day one. That will probably not be the case very often, and FEMA will probably have to establish a training program for CTPs.

Some level of funding commitment. The District elected to not charge any District staff time or incidental expenses to the project, which turns out to be a significant financial contribution. It may be reasonable for FEMA to require a certain level of financial commitment (at least in-kind) in order to become a reviewer CTP.

Fee collection. At some point FEMA will have to either allow fee collection by the CTPs or get involved in a new area of funding disbursement (such as advances to, or monthly invoices from, CTPs). FEMA's grant process is tailored to a different type of project, and is not conducive to an on-going process like this one.

NSP costs. There will probably continue to be some costs incurred by the NSP for administrative tasks. How those are funded will have to be addressed.

Staffing. Should CTPs be allowed to use their own staff, or should there still be a private sector component?

Software incompatibility. Icon identified software compatibility problems during this pilot, which will probably show up elsewhere as well. These will have to be resolved.

Second Year Observations and Comments

A conflict of interest resolution process. FEMA should have a conflict of interest procedure in place if the CTP review of LOMC requests is pursued.

Fee overrun protection. If CTPs are funding LOMC reviews based on fees alone there should be some protection from severe cost overruns resulting from either complex projects or poor quality technical work.

Time spent by the NSP. After a probation period wherein the CTP demonstrates the necessary competence, FEMA should move to a random audit process for determining continued competence.

Third Year Observations and Comments

CLOMRs for Zone A's. FEMA could require CLOMRs in these situations as a way of identifying and avoiding potential problems.

Local NSP presence. The opening of a local office of the NSP holds promise for enhanced coordination and customer service.

Conclusions

The District would certainly like to continue to review requests for LOMCs following the conclusion of the pilot project. We also hope that FEMA will be convinced by the experience of this pilot project to offer the same opportunity to other qualified local and state CTPs. We encourage FEMA to make the decision to allow other CTPs to review requests for LOMCs within their jurisdictions, and to begin the process of amending existing regulations to allow that to happen.

The DFIRM maintenance pilot project demonstrated that doing LOMC review and DFIRM maintenance under one roof further streamlines the process and enhances the quality of both. It is easy to envision that when the remaining counties in the District are converted to DFIRMs, a LOMR request would be handled by modifying the DFIRM flood data first and then creating the LOMR annotated map from the modified DFIRM. The District would like very much to pursue that opportunity.

Acknowledgements

The author would like to thank Kevin Long, FEMA Washington; Dan Carlson, FEMA Region 8, and Anne McDaniel, Michael Baker Jr., for keeping things running smoothly on their end.

Thanks to Craig Jacobson, Troy Carmen, Doug Williams and Penn Gildersleeve, Icon Engineering Inc., for a thoroughly professional job of reviewing these cases

Finally, thanks to Scott Tucker (retired) and Dave Lloyd, District Executive Director, for their strong support of this effort; and to David Mallory, who has assisted me throughout this effort.

Table 1 - Timeline Performance

Case No.	Identifier	All Data Received (Date)	Draft 102 or 104 Letter to FEMA (Date)	Elapsed time from receipt of all data (Days)	Letter signed by FEMA (Date)	Elapsed time from receipt of draft letter to signed letter (Days)	Elapsed time from receipt of all data to signed letter (Days)	Comments
03-08-0537R	Sand Creek Park	1/21/2004	2/23/2004	33	4/9/2004	46	79	
03-08-0596P	Preserve at Weaver Creek	9/3/2003	9/29/2003	26	11/13/2003	45	71	
03-08-0601P	E-470 at Todd Creek	8/19/2003	9/29/2003	41	11/4/2003	36	77	
03-08-0620P	E-470 at Third Creek	9/18/2003	10/27/2003	39	12/24/2003	58	97	
03-08-0621P	E-470 at SPR	10/9/2003	11/21/2003	43	1/16/2004	56	99	
03-08-0645P	Bradburn Village	12/17/2003	1/14/2004	28	3/9/2004	55	83	
03-08-0664P	Meridian #5	12/11/2003	1/14/2004	34	3/1/2004	47	81	
03-08-0674R	Truth Christian Academy	5/3/2004	6/17/2004	45	7/15/2004	28	73	
03-08-0677P	E-470 at Big Dry Creek	1/16/2004	2/9/2004	24	3/29/2004	49	73	
03-08-0691P	Watson Lane Filing No. 1	11/3/2003	12/15/2003	42	3/1/2004	76	118	
02-08-447P	Kohl's City Park Channel	12/19/2003	2/9/2004	52	5/14/2004	95	147	Moved from year two grant
03-08-0022P	Tom Frost Reservoir	1/23/2004	2/23/2004	31	4/19/2004	56	87	Moved from year two grant
03-08-0305P	Safeway Store #344	11/13/2003	12/18/2003	35	3/1/2004	73	108	Moved from year two grant
04-08-0033P	Pine Drive Bridge	11/7/2003	12/3/2003	26	12/30/2003	58	84	
04-08-0098P	Goose Creek	2/18/2004	3/17/2004	24	5/13/2004	57	81	
04-08-0108P	E-470 @ Big Dry Tribs	2/4/2004	2/9/2004	5	3/29/2004	49	54	
04-08-0190R	Sunmarke Filing No. 1	2/3/2004	2/23/2004	20	5/4/2004	71	91	
04-08-0216R	Eastgate	5/5/2004	6/4/2004	30	7/15/2004	41	71	
04-08-0253R	Burt Automotive	4/8/2004	5/4/2004	26	6/3/2004	30	56	
04-08-0255R	Cherry Creek Diversion	3/8/2004	4/14/2004	37	6/7/2004	54	91	
04-08-0259P	NW Parkway	2/9/2004	3/17/2004	33	5/19/2004	63	96	
04-08-0288P	Jared's Nursery	5/20/2004	7/6/2004	47	8/10/2004	35	82	
04-08-0319R	Red Leaf #2	3/31/2004	5/17/2004	47	6/8/2004	22	69	
04-08-0345P	Belle Creek #4	3/19/2004	5/17/2004	59	6/14/2004	28	87	
04-08-0346P	Kipling Sun	4/5/2004	6/1/2004	57	6/24/2004	23	80	
04-08-0392R	Larkridge Mall	4/29/2004	6/17/2004	49	7/15/2004	28	77	
04-08-0428P	River Canyon	4/29/2004	5/17/2004	18	6/1/2004	15	33	
04-08-0438R	Haven at York Street	6/24/2004	8/16/2004	53	9/8/2004	23	76	
04-08-0439P	Big Dry Creek						0	Moved to year four grant
04-08-0448R	Rueter-Hess Dam	5/18/2004	7/7/2004	50	8/10/2004	34	84	
04-08-0458R	Unnamed Creek	5/7/2004	6/30/2004	54	7/30/2004	30	84	
04-08-0467R	Dancing Willows	5/26/2004	7/20/2004	55	8/19/2004	30	85	
04-08-0485P	Green Acres Phase 2	9/9/2004	9/21/2004	12	10/29/2004	38	50	
04-08-0494P	Twomile Canyon	8/27/2004	9/20/2004	24	11/1/2004	42	66	
04-08-0502R	Greenfield	6/2/2004	7/22/2004	50	8/19/2004	28	78	
04-08-0520R	North Huron Street	7/7/2004	8/24/2004	48	9/10/2004	17	65	
04-08-0527R	Woodhaven	8/9/2004	10/4/2004	56	11/1/2004	28	84	
04-08-0604R	Willow Bend	10/1/2004	11/23/2004	53	12/14/2004	21	74	
04-08-0643R	Ketner Creek	7/30/2004	9/15/2004	46	10/6/2004	21	67	
04-08-0657P	Hutchinson Park	12/21/2004	1/27/2005	37	2/23/2005	27	64	
04-08-0696P	Lincoln/Pine	11/15/2004	1/11/2005	57	2/17/2005	37	94	
04-08-0699P	Cherry Creek Dam						0	
04-08-0705P	Bear Creek Dam						0	
04-08-0706P	Chatfield Dam						0	
04-08-0755R	16 Random Road	11/29/2004	1/4/2005	37	1/18/2005	14	51	
04-08-0761R	Aurora Commerce Center	10/12/2004	12/1/2004	50	12/22/2004	21	71	
				1633		1705	3338	
				38.9		40.6	79.5	

Table 2 – Financial Summary

Grant:	Total Grant	\$180,000.00
	Total Received	180,000.00
	Remainder	0.00

		Case Specific	Non-specific	Totals
Encumbrances:	Total Encumbered	\$161,500.00	\$18,500.00	\$180,000.00
	Overs	14,992.93		14,992.93
	Unders	25,492.93		25,492.93
	Revised Encumbered	161,500.00	18,500.00	180,000.00
	Remaining	0.00		0.00

Notes:

1. The \$18,500 in non-specific costs was for the pilot project concerning DFIRM maintenance.
2. These figures are for all cases worked on during the grant period. They will differ from figures which account for only cases started and finished within the grant period.

Table 3 - Financial Analysis

Case No.	Descriptor	FEMA Fee	Fee Received	ICON Authorized	ICON Invoices Total	Overs	Unders
	Non-specific Costs						
03-08-0537R	Sand Creek Park	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,815.91		\$ 184.09
03-08-0596P	Preserve at Weaver Creek	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,320.25		\$ 479.75
03-08-0601P	E-470 at Todd Creek	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,267.00		\$ 533.00
03-08-0620P	E-470 at Third Creek	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,011.25		\$ 788.75
03-08-0621P	E-470 at SPR	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,452.50		\$ 347.50
03-08-0645P	Bradburn Village	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 3,822.00		\$ 378.00
03-08-0664P	Meridian #5	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,071.00		\$ 729.00
03-08-0674R	Truth Christian Academy	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,773.91		\$ 226.09
03-08-0677P	E-470 at Big Dry Creek	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,572.25		\$ 227.75
03-08-0691P	Watson Lane Filing No. 1	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 3,438.00		\$ 762.00
02-08-447P	Kohl's City Park Channel				\$ 3,282.25	\$ (3,282.25)	
03-08-0022P	Tom Frost Reservoir				\$ 3,204.50	\$ (3,204.50)	
03-08-0305P	Safeway Store #344				\$ 3,731.75	\$ (3,731.75)	
04-08-0033P	Pine Drive Bridge	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,556.25		\$ 243.75
04-08-0098P	Goose Creek	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 5,444.50	\$ (1,244.50)	
04-08-0108P	E-470 @ Big Dry Tribs	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,536.75		\$ 263.25
04-08-0190R	Sunmarke Filing No. 1	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,793.00		\$ 207.00
04-08-0216R	Eastgate	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,678.25		\$ 321.75
04-08-0253R	Burt Automotive	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,979.00		\$ 21.00
04-08-0255R	Cherry Creek Diversion	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,957.75		\$ 42.25
04-08-0259P	NW Parkway	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,550.25		\$ 249.75
04-08-0288P	Jared's Nursery	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 4,197.00		\$ 3.00
04-08-0319R	Red Leaf #2	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,625.75		\$ 374.25
04-08-0345P	Belle Creek #4	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,647.75		\$ 152.25
04-08-0346P	Kipling Sun	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 3,143.00		\$ 1,057.00
04-08-0392R	Larkridge Mall	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,362.25		\$ 637.75
04-08-0428P	River Canyon	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 3,283.75		\$ 916.25
04-08-0438R	Haven at York Street	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,926.50		\$ 73.50
04-08-0439P	Big Dry Creek	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 5,831.18	\$ (1,631.18)	
04-08-0448R	Rueter-Hess Dam	\$ 4,500.00	\$ 4,500.00	\$ 4,000.00	\$ 3,800.25		\$ 199.75
04-08-0458R	Unnamed Creek	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 2,330.00		\$ 1,670.00
04-08-0467R	Dancing Willows	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,544.00		\$ 456.00
04-08-0485P	Green Acres Phase 2	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,770.50		\$ 29.50
04-08-0494P	Twomile Canyon	\$ -	\$ -	\$ 4,200.00	\$ 4,062.75		\$ 137.25
04-08-0502R	Greenfield	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,537.50		\$ 462.50
04-08-0520R	North Huron Street	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,466.00		\$ 534.00
04-08-0527R	Woodhaven	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,048.00		\$ 952.00
04-08-0604R	Willow Bend	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,571.75		\$ 428.25
04-08-0643R	Ketner Creek	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 2,961.00		\$ 1,039.00
04-08-0657P	Hutchinson Park	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 4,544.25	\$ (344.25)	
04-08-0696P	Lincoln/Pine	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 5,351.75	\$ (1,551.75)	
04-08-0699P	Cherry Creek Dam	\$ -	\$ -	\$ 4,200.00	\$ 695.25		\$ 3,504.75
04-08-0705P	Bear Creek Dam	\$ -	\$ -	\$ 4,200.00	\$ 800.25		\$ 3,399.75
04-08-0706P	Chatfield Dam	\$ -	\$ -	\$ 4,200.00	\$ 800.25		\$ 3,399.75
04-08-0755R	16 Random Road	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,002.75	\$ (2.75)	
04-08-0761R	Aurora Commerce Center	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,938.25		\$ 61.75
	DFIRM Pilot Project	\$ -	\$ -	\$ 18,500.00	\$ 18,500.00		
TOTALS		\$ 155,700.00	\$ 155,700.00	\$ 190,500.00	\$ 180,000.00	\$ (14,992.93)	\$ 25,492.93

For accounting purposes only, Case Nos. 0699P, 0705P and 0706P have been closed out
Case No. 0439P has been moved to the next grant for completion