



DEPARTMENT OF
PUBLIC WORKS

CITY OF SACRAMENTO
CALIFORNIA

1391-35TH AVENUE
SACRAMENTO, CA
95822-2911

DIVISION OF
FLOOD CONTROL AND SEWERS

916-449-5271

June 4, 1991

Budget and Finance Committee/Transportation
and Community Development Committee
Sacramento, California

Honorable Members in Session:

SUBJECT: REPORT BACK - MAGPIE CREEK FLOOD CONTROL PROJECT

SUMMARY

In response to your request on May 8, 1991, Public Works has prepared this status report of the Magpie Creek Diversion Project. The most recent studies have concluded that the Magpie Creek project, initially estimated at \$3.5 million, will now cost \$13.5 million. Because of this high cost the Flood Control and Sewer Division on September 22, 1989 asked the Corps of Engineers to initiate a small project study under their 205 authority. Such authority establishes criteria the Corps must follow to study, design and construct small flood control facilities. A "small project" is defined as one in which the federal government's share would not exceed \$5 million.

The project is performed in three phases, reconnaissance, design and construction, and the feasibility. The reconnaissance phase of the 205 study will be completed towards the end of May 1991 and the Corps has tentatively identified an economic project that can be cost shared by the federal government. The project includes realigning Magpie Creek from Patrol Road on McClellan Air Force Base to the Magpie Creek Diversion. When completed the reconnaissance report will be forwarded to the Corps' Division office in San Francisco with a request that authority to proceed with a feasibility study be granted.

Before the Corps can begin the feasibility study a local sponsor who will cost share in the expense of the feasibility work must be identified. Due to the many jurisdictions that will ultimately be involved with the project, Public Works informally asked the Sacramento Area Flood Control Agency (SAFCA) staff if they would be able to act as the local sponsor of the project. SAFCA has replied that they do not have the resources necessary to manage the project at this time. Consequently when the reconnaissance report is presented to the Council, Public Works will be recommending that the City be the local sponsor for the feasibility phase of the project. The cost of the feasibility work is estimated to be \$815,000. The local share of this cost will be approximately \$244,500.

BACKGROUND INFORMATION

In 1989 the City of Sacramento and the U.S. Army Corps of Engineers, representing the McClellan Air Force Base, entered into an agreement to realign that portion of Magpie Creek extending from Patrol Road on McClellan Air Force Base to the Magpie Creek Diversion, approximately 700 linear feet west of Raley Boulevard. The agreement covered both the design and construction cost which were estimated to be \$3.5 million.

The agreement also set a \$1.5 million limit that McClellan Air Force Base was obligated to pay. The additional \$2.0 million was to come from the Robla Viejo Assessment District (\$1.2 million) and from the City of Sacramento (\$800,000).

The \$3.5 million estimate used for the agreement was based on the Brown and Caldwell's 1985 report, "Magpie Creek Diversion Drainage Study." A more recent study completed by Dewante and Stowell in 1989, however, has concluded that the design and construction cost will be approximately \$13.5 million. The main reason for this \$10.0 million difference was due to additional environmental mitigation requirements and a reconfiguration of the project. Consequently the funds allocated by McClellan AFB, the Robla Viejo Assessment District and the City were no longer adequate. Due to this funding problem and the fact that the Corps of Engineers had other studies ongoing that could be impacted by this realignment project, the Flood Control and Sewer Division on September 22, 1989 asked the Corps of Engineers to initiate a 205 small project study.

Acting on this request, the Corps has completed a draft 205 reconnaissance report which presently is being reviewed by staff. The final reconnaissance report is scheduled to be completed towards the end of May 1991. Once completed, City staff and the Corps will present the findings to the Council. In the draft 205 report, the Corp has identified a cost effective project that can be cost-shared by the federal government. Therefore the Corps will be forwarding a favorable letter report to their South Pacific Division requesting authority to proceed with feasibility level studies. The project that the Corps has identified is the same project described in the Dewante and Stowell 1989 report. The schedule and approximate cost for the completing the feasibility study, designing the improvements, and constructing the project are shown on Figure 1.

Reconnaissance	Feasibility	Engineering/Design	Construction
	\$815,000	\$1,600,000	\$11,085,000
90	91	92	93
			97

FIGURE 1

As can be seen, the feasibility study is scheduled to begin in FY 92. However, prior to starting the feasibility work a Federal Cost Sharing Agreement between the local sponsor and Corp of Engineers will need to be executed. Since several agencies, (American River Flood Control District (ARFCD), State Department of Water Resources, McClellan AFB, and City of Sacramento), will be involved with this project, Public Works informally asked SAFCA staff if they would act as the local sponsor. SAFCA staff responded that they did not have the resources necessary to manage the project at this time.

The State Reclamation Board was also asked if they could serve as the local sponsor. They responded by saying that their authority did not allow them to be the local sponsor for 205 small project studies. Staff also contacted ARFCD staff. They said they could act as the local sponsor, but stated they could not assess properties receiving benefit from the project outside their district boundary. Some of the property is outside their ARFCD's boundaries. Consequently, when the reconnaissance report is presented to the Council, Public Works will be recommending that the City act as the local sponsor for the feasibility phase of the project.

Additional participation from local agencies including SAFCA, ARFCD and the State Reclamation Board will be sought as a part of the local share (designated as "City") under a Local Cost Sharing Agreement.

FINANCIAL DATA

The feasibility work is estimated at \$815,000. According to Corps' 205 guidelines, 50% of the feasibility cost is paid by the federal government. However, the cost of the feasibility studies for that portion of the project located on McClellan Air Force Base cannot be funded with 205 money. Assuming McClellan Air Force Base's fair share of the study is \$326,000, the cost sharing amounts to be paid by the various agencies are as follows:

McClellan AFB	\$ 326,000
City of Sacramento	244,500
Corps of Engineers	244,500
Total	\$ 815,000

This break out, however, is dependent on the actual amount of work that needs to be performed on the Base and therefore only represents a rough idea of the shared cost. The \$326,000 figure assumes that 40% of the needed improvements are located on McClellan AFB. Funding the City's share is included in the Capital Improvement Project #WD16, "Magpie Creek Diversion," which has sufficient unobligated funds.

Additionally, it should be pointed out that the Corps small project authority has an upper limit of \$5 million dollars for construction. The State Department of Water Resources, under the subventions program, can fund up to 70 percent of the local share of lands, easements, rights-of-way, and relocations. The Air Force Military Construction program should fund the construction on base. Based on the estimated cost of \$13.5 million, the approximate cost for the project would be paid as follows:

MAGPIE CREEK PRELIMINARY ESTIMATE 5/16/91						
PROJECT COST	MCCLELLAN AFB	CORPS OF ENGINEERS	STATE SHARE DWR	ROBLA VIEJO ASSESSMENT DISTRICT	CITY OF SACRAMENTO	TOTAL
Construction	3,100,000	5,000,000		1,200,000	2,680,000	11,980,000
LERR*			700,000		300,000	1,000,000
5% CASH**			364,000		156,000	520,000
TOTALS	3,100,000	5,000,000	1,064,000	1,200,000	3,136,600	13,500,000

* Lands, easements, rights-of-way and relocation cost
 ** 5% upfront cash required as part of local cost

POLICY CONSIDERATIONS

Acting as the local sponsor is consistent with the interagency agreement between the Sacramento Area Flood Control Agency, the County of Sacramento and the Housing Authority of the City of Sacramento. The City resolution No. 89-047A attached to this agreement allows the City to provide staff, funds and support services to SAFCA.

A major policy issue concerns the future and ongoing development in the floodplain of Magpie Creek, Don Julio Creek and the Magpie Creek diversion. The best available data indicates that a 100-year storm event cannot be contained in the existing diversion channel. The diversion channel is only designed to carry a 1600 cubic foot per second (cfs), whereas, the 100-year storm would yield approximately 2800 cfs. Therefore, future development should be required to mitigate and protect against this flood threat. Additionally, the historic Magpie Creek channel should be kept clear of structures. This will allow an escape route for floods that generate flow that exceed the design capacity of the diversion.

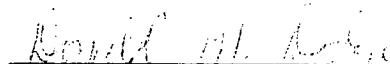
An informational report on the Morrison Creek Flood Control Project will be coming to the Joint Committee within a month.

MBE/WBE EFFORTS

Not applicable

RECOMMENDATION

This report is for information only.



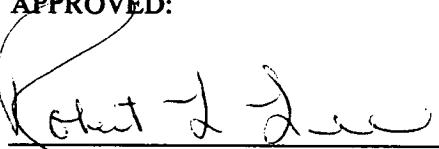
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June 4, 1991
District 5