

Zone 4

**Report to the Zone Commissioners
Design and Construction Projects
for Calendar Year 2010**

By Dusty Williams, General Manager-Chief Engineer
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GENERAL:

Throughout the District (all Zones) during Calendar Year 2010, the Design and Construction Division completed five capital projects with a combined value of \$11.7 million. In Calendar Year 2010 the District also inspected and issued notices of completion for 20 developer-built projects with a total value of almost \$14 million.

As with last year, bids for District construction projects have shown that general contractors are still making very competitive bids. The District will continue to try to leverage this dip in construction costs by pushing hard to complete designs and advertise projects while prices are low.

Eleven capital improvement projects in the FY 2010/2011 budget are scheduled to either commence construction or to purchase right-of-way in Calendar Year 2011. The total cost of these eleven projects exceeds 30 million dollars. Several other drainage projects are being managed by individual Cities with the District participating in funding.

Additionally, we are also underway with six repair projects that require engineered drawings due to the severity of the damage or potential damage to our facilities. Deficiencies range from exposed and rusting rebar to undermined slope paving. As all in-house resources are devoted to our capital improvement projects, these six projects are being designed by outside consulting engineers. The plans for all of these repair projects are essentially complete and we expect to advertise these for construction in the spring of 2011.

Calendar Year 2011 should also see completion of significant changes at the District's office site. The proposed Low Impact Development (LID) Retrofit Project is a three-part project. The completed project will convert the District's Market Street campus into a regional example of green development concepts. The upgraded facility will be used as a regional "green" training center for municipal employees, developers, engineers, and contractors throughout the Inland Empire and Orange County. Currently, there are limited locations and opportunities to demonstrate the proper application of LID BMPs. This facility is uniquely designed to accomplish both demonstration and monitoring of the effectiveness of LID practices. This project is intended to facilitate the support and implementation of LID BMPs by municipalities and developers. The cost of this project is being partially subsidized by a \$475,000 State Proposition 13 grant administered by SAWPA.

Following is a status summary of the capital improvement projects for Zone 4:

Current Year Capital Projects (Budgeted FY 2010/2011)

1. **San Jacinto River, Stage 4 (4-8-00020-04)** - This project, a joint venture with the City of San Jacinto, was conceived as a multi-year plan to construct the ultimate levee system (approximately 1,200 feet river bottom width) between the existing Corps of Engineers' levee 9,500 feet upstream of State Street, and a point about 8,200 feet downstream of Sanderson Avenue, a distance of about 5 miles. Floodwalls on piles are required to be constructed over the Metropolitan Water District facilities just east of State Street.

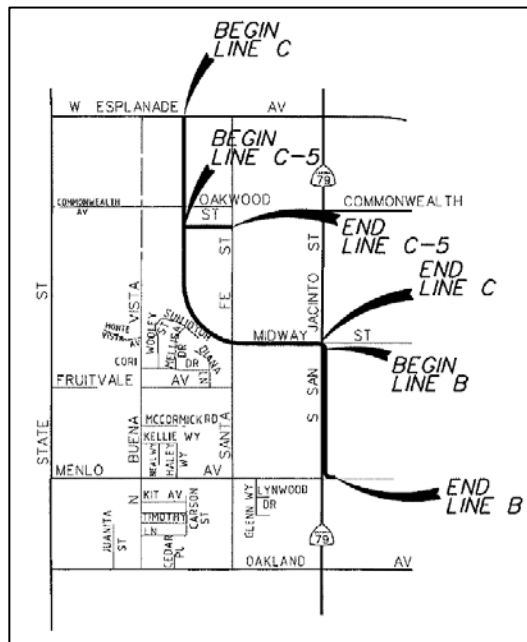
The District and the City began work on the project in 2000 after the Corps of Engineers prepared a Reconnaissance Study and determined there was no justification for Corps participation. The City, with funding from the District, contracted with CH2MHILL for preparation of a Biological Assessment of the area impacted by the proposed levee project. In December 2002, the District executed an agreement with the City to share the cost of design and construction of the proposed levee project up to a maximum of \$7 million. An amendment to that agreement is pending District Board approval. The amendment would raise the District's contribution to \$12 million, place the burden of property acquisition entirely on the City and establish the City as the Lead Agency for CEQA.

A preliminary design report was prepared by Webb Associates in 2004. Work on the Final Design and EIR commenced in 2007. The City entered into a contract for Final Design with prime consultant Webb Associates, and sub-consultants CHJ (geotechnical, special pile design), PACE (sediment transport) and Terrain Engineering (floodwall design). On March 3, 2009 the District entered into a 50% cost share agreement on the design work with the City. The agreement was amended on February 9, 2010 to cover additional design work approved by the City Council on January 7, 2010. The most significant aspect of the additional design work was changing the preliminary alignment to avoid the Haringa Dairy. Plans are scheduled to be completed by March 2011.

Webb Associates is also the primary consultant on the EIR document with Glenn Lukos and Associates providing the biological survey data. The District covered 100% of the cost for the environmental work. A CEQA Notice of Preparation of a DEIR was originally circulated in July 2007. Since the Notice of Preparation was circulated, the proposed project has changed in the following ways: a shift in the alignment of the proposed southern levee; an increase in the extent of northern levee and floodwall enhancements; protection of the Metropolitan Water District underground pipelines; a reach of floodwall along the southern levee; preparation of an Operation and Maintenance Plan for the proposed facilities; and extension of the project area approximately 6,800 feet downstream (to the northwest). Another CEQA Notice of Preparation was circulated in July 2010 to address these project changes. The environmental work is ongoing and complex as the CEQA and MSHCP documents must address the above project changes and potential impacts to the Southwest Willow Flycatcher, least Bell's vireo, Los Angeles Pocket Mouse, San Bernardino Kangaroo Rat and riparian/riverine habitat. The Draft EIR is scheduled to be circulated for public review by the City in July 2011.

Subject to the completion of right of way acquisition, construction is tentatively scheduled to begin in February 2012.

2. **San Jacinto MDP Lines C, B, C-5 (4-8-00124-02)** – This project begins at the upstream end of the District's existing Line C facility and extends south to Midway Street then east in Midway to South San Jacinto Street. This project will also build San Jacinto MDP Line B in South San Jacinto Street from Midway Street to Menlo Avenue and Lateral C-5 east to Santa Fe Street. To assure that we design adequate collection, we have extended the design limits to include Menlo Avenue east of South San Jacinto Street. We are presently working to finish the Preliminary Design Report so that alignments and facility type can be finalized. We currently have an Environmental Consultant beginning to work on this project.



3. **San Jacinto MDP Line G (4-8-00125-01)** - This project consists of a one-time contribution of \$1 million to the construction of an underground storm drain that extends from a proposed detention basin at the intersection of Potter Road and De Anza Drive then southwest in De Anza to Young Street. The City of San Jacinto is administering the project; the District will own and operate the facility upon completion of construction and the Potter Road Basin outfall. The District is in the process of reviewing construction drawings for the storm drain. The District's last contact with this project was plan check number four in December 2008. The construction schedule is controlled by the City of San Jacinto.
4. **Menifee - Hawthorne Avenue Storm Drain (4-8-00163-01)** - This project is an underground storm drain from an outlet north of Holland Road southerly in Hawthorne Avenue to a collection system south of Craig Avenue. The District's contractor has installed the storm drain system and we are in the process of finishing/accepting the project into our maintenance system.
5. **Hemet MDP Line C, Stage 4 (4-8-00212-04)** – This project is an underground storm drain approximately 6,600 feet long located in the city of Hemet. The project is proposed within Whittier Avenue extending from the existing storm drain at Palm Avenue east to San Jacinto Street. Originally planned to extend only to Santa Fe Street the project limits have been extended at the request of the City of Hemet. Design mapping was completed in April 2010. The District is currently soliciting proposals to provide engineering services via a Notice of Availability posted in the local newspaper in December 2010. A Notice to Proceed with the design could be delivered by April 2011.
6. **Little Lake MDP Line B (4-8-00265-01)** - This project is a 1.5 mile underground storm drain extending from an existing storm drain in Meridian Street near Berkeley Avenue south in Meridian to Whittier Avenue. The preliminary alignment and pipe sizes for the Line B Storm Drain were established as part of an overall revision to the Little Lake Master Drainage Plan. A few months ago, preparation of the Preliminary Design Report was begun. Efforts have been focused on identifying the most feasible storm drain alignment with the least amount of impact to the numerous existing utilities. Due to the significant amount of utilities that would need to

be relocated and the length of the storm drain, multiple contracts for staged construction is being explored.



7. **Romoland MDP Line A (4-8-00310-01)** - This project is a major flood control project that involves the construction of the Line A system including Laterals A-2 and A-3. The project extends from the San Jacinto River near Goetz Road east approximately six miles to Juniper Flats Road and incorporates both lined and unlined open channel, underground storm drains and two major detention basins. This is a developer administered project whose costs will be jointly funded by a consortium of developers (aka the "Corporation"), the District (using Area Drainage Plan funds) and a Community Facilities District being formed by the District at the request of the developers. The CFD was formed on January 29, 2008, the plans were completed, and bids were opened in late spring 2008. The construction was broken into 4 separate contracts and the total cost of the four bids was \$43.5 million. Ultimately, the Corporation elected not to award these contracts. Since mid-2008, construction has been on hold. The Developers are pursuing alternate means of financing the construction including federal stimulus dollars.

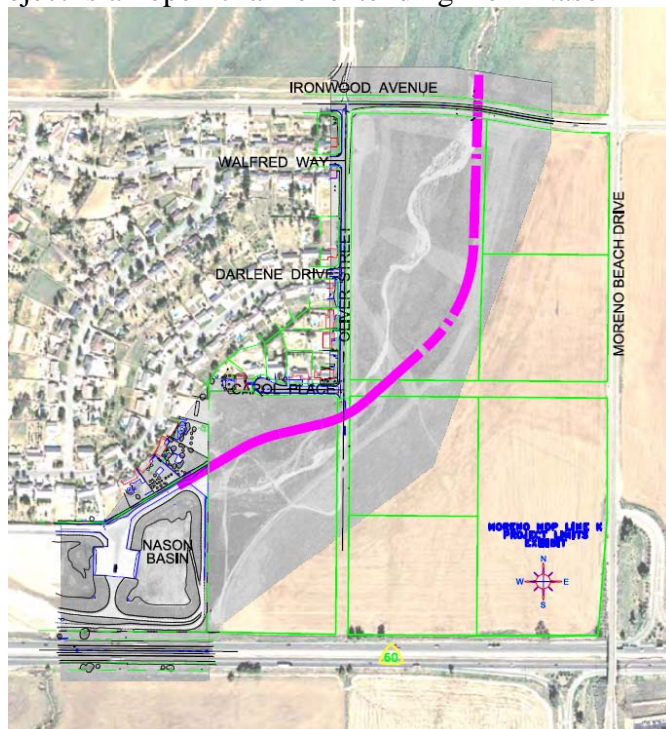
8. **Green Acres Dam and Outlet (4-8-00330-00)** - The proposed project consists of a retention basin and its associated outlet. The retention basin will be located near Cortrite Avenue and Los Limones Lane, and the outlet will extend south to State Highway 74. The project concept is over 20 years old and a feasibility study is currently being conducted, which includes updating the hydrology and resizing the dam. The preliminary size of the dam includes a maximum height of 46 feet and a maximum storage volume of 149 acre-feet. The dam will be under the jurisdiction of the State's Division of Safety of Dams. The District is in the process of hiring a geotechnical services consultant to assess the proposed project location.

9. **Homeland MDP Line 2, Stage 2 (4-8-00337-02)** – The project was spawned from flooding complaints from residents in the area, most notably Bennie Lunstrum who lives on the southeast corner of Guthridge Lane and Wakefield Avenue. Local residences are impacted by two major floodplains in this area. Due to the interim nature of the existing drainage facility downstream, the storm drain is being designed to collect and convey runoff from small and frequent storms. The project consists of a 45" reinforced concrete pipe that extends from the existing basin in Guthridge Lane, upstream to the intersection of Wakefield Avenue and Ritter Avenue.



30% construction plans are nearly complete and we anticipate advertising the project for construction in summer 2011.

10. **Perris MDP Line Q (4-8-00512-01)** – This project, administered by the City, is an open channel along Nuevo Road from Dunlap Drive to Perris Valley Channel. The District contributed \$1,500,000 in May 2009 when construction began. The project is now complete, final walkthroughs are being scheduled at press time.
11. **Moreno MDP Line K-1 (4-8-00766-01)** - From Line K east in Ironwood Avenue to Petri Street. This project is being designed by a consultant as part of the work the City of Moreno Valley is doing in association with improvements to the Moreno Beach Drive & 60 freeway interchange.
12. **Moreno MDP Line K (4-8-00767-01)** - This project is an open channel extending from Nason Basin northeasterly approximately 2,500 feet to Ironwood Avenue. As a result of the Preliminary Design Report (PDR), the open channel has morphed into a floodplain preservation project with no physical improvement needed. Floodplain limits have been established. Appraisals for the floodplain right-of-way have been completed and the acquisition process will begin shortly. Project CEQA process has begun and we anticipate compliance in spring 2011.



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