

Zone 5
Report to the Zone Commissioners
for Calendar Year 2016
By Jason Uhley, General Manager-Chief Engineer
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Accolades & Accomplishments

LID Project

In 2012, the District completed a \$2.5 million retrofit of our headquarters in Riverside, CA to incorporate Low Impact Development features and landscaping. Since its construction, this project has received numerous awards, including the latest received from the National Association of Flood and Stormwater Management Agencies (NAFSMA) in 2016: "Top Overall Project" – Stormwater Management Green Infrastructure Awards.

Eagle Canyon Dam

In November 2015, the District completed the Eagle Canyon Dam project, which not only put an end to this canyon's repeated damaging flash flooding, but also included \$1.2 million in environmental clean-up (funded by Palm Springs and Cathedral City) at this long blighted location. This \$10 million project has since received several awards, including:

- ASCE Overall Project of the Year (San Bernardino/Riverside Branch)
- ASCE Flood Management Project of the Year (Los Angeles Section)
- APWA Project of Merit Award (Southern California Chapter)
- ASCE Outstanding Flood Management Project (Statewide)

Romoland/Homeland Project

In 2016, the District completed the \$27 million Romoland MDP Line A project, the largest single contract the District has ever issued. Construction of Romoland Line A's follow-up stage, the \$14.3 million "Homeland Line 1 and Juniper Flats Basin" contract will be complete in early 2017. These projects are good examples of the District and County working to achieve "smart growth" by ensuring that important infrastructure is built concurrently with the new development rather than retrofit afterward.

Water Conservation & Water Quality

District staff continues to meet with regional water agencies in an effort better understand local groundwater basins and to promote joint stormwater recharge and other water conservation projects. To help locate and prioritize projects, the District is investigating/tracking dozens of existing basin/dam facilities which could be retrofitted to improve stormwater capture and recharge. The Stormwater and Water Conservation Geodatabase system (rivco.permitrack.com) continues to be used to assist the Cities, County and developers with addressing flood control and National Pollutant Discharge Elimination System (NPDES) stormwater quality requirements.

Capital Improvement Plan Projects

Banning MDP Lines D-2 and D-2A (5-8-00169-01)

Banning MDP Line D-2 is an underground storm drain that ties into the existing Ramsey Street Storm Drain at the intersection of Hargrave Street and Ramsey Street. The project will extend one mile northerly along Hargrave Street prior to terminating at Indian School Lane. The lateral Line D-2A will tie into Line D-2 at Theodore Street and continue westerly for approximately 700 feet prior to terminating at Florida Street.

The contractor, Mamco, Inc. dba Alabbasi, was the lowest bidder at \$3,133,777.00. We expect construction to begin in early 2017 and take ten months to complete.



Banning MDP Line H, Stage 1 (5-8-00177-01)

This project is located in the city of Banning, south of Interstate 10, west of Cabazon. The line will be a 100-year facility rather than the 10- year facility proposed in the District's Banning Master Drainage Plan. The project will collect and convey flows to Smith Creek. JLC Engineering & Consulting is the design consultant for this project.

Line H will be constructed along Hathaway Street beginning at Barbour Street extending approximately 0.5 miles south to Wesley Street. The storm drain continues easterly along Wesley Street for approximately 0.25 miles to Smith Creek. The total length of the project is approximately 4,200 feet. Sizes range from 30-inch to 72-inch diameter reinforced concrete pipe. There is also a short reach of reinforced concrete box near the outlet.

The existing concrete slope protection on the west bank of Smith Creek will be modified to construct a wing wall outlet structure and riprap apron.

This project will construct three stub outs for future connections at Wesley Street, Charles Street and Westward Avenue. Since ultimate street improvements only exist in a few areas, the collection of flows in the interim condition is a challenge.



60% design plans are complete. A pothole investigation to verify the depth of eight crossing utilities was completed in December 2016. This information will be incorporated into the 90% design plans which are expected in spring 2017. There are a few locations where storm drain easements will need to be acquired; this process has not yet begun. The public comment for the CEQA Initial Study and Mitigated Negative Declaration (MND) was completed in July 2016. A Streambed Alteration Agreement with the California Department of Fish and Wildlife (CDFW) was executed on October 26, 2016. Construction of this project will not require the relocation of any major utilities.

Beaumont MDP Line B-16, Stage 1 (5-8-00201-01)

This project will build MDP Line 16 as an element of a cooperative project with the Beaumont-Cherry Valley Water District (BCVWD) to provide both flood control and stormwater capture for groundwater recharge. Line 16 will be built in Grand Avenue beginning at the intersection of Grand Avenue and Winesap Avenue heading west along the right of way of Grand Avenue until it reaches BCVWD's NCRF-Ph II. Line 16 will collect storm flows from Winesap Avenue, Jonathan Avenue, Cherry Avenue and Noble Street. Line 16 will be designed as a 10-year storm drain facility from Winesap Avenue to the recharge facility and will convey the entire 10-year storm flows to NCRF-Ph II. The project will also include a "feeder" line connection from Bellflower Avenue to Winesap Avenue to capture small flows from Bellflower Avenue. This new alignment will allow BCVWD to recharge storm flows from Line 16's tributary area into the Beaumont Groundwater Basin.

