

MINUTES OF THE REGULAR MEETING OF THE
BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT

July 5, 2017

A Regular Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, July 5, 2017 at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

In the absence of President Miller, Vice President Dorey called the meeting to order at 8:30 a.m.

2. ROLL CALL

Directors present: Vásquez, Dorey, Sanchez, and MacKenzie.

Directors absent: President Miller.

Staff present: Brett Hodgkiss, Assistant General Manager; Marian Schmidt, Assistant Secretary of the Board; Brian Smith, Director of Engineering; Frank Wolinski, Operations and Field Services Manager; Alisa Nichols, Management Analyst; and Marlene Kelleher, Finance Manager. Back-up General Counsel Jeremy Jungreis was also present.

Other attendees: None.

3. PLEDGE OF ALLEGIANCE

Director Dorey led the pledge of allegiance.

4. APPROVAL OF AGENDA

17-07-81	<i>Upon motion by Director MacKenzie, seconded by Director Vásquez and unanimously carried (4 ayes: Vásquez, Dorey, Sanchez, and MacKenzie; 1 absent: Miller), the Board of Directors approved the agenda as presented.</i>
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5. PUBLIC COMMENT TIME

No public comments were presented on items not appearing on the agenda.

6. CONSENT CALENDAR

17-07-82	<i>Upon motion by Director MacKenzie, seconded by Director Vásquez and unanimously carried (4 ayes: Vásquez, Dorey, Sanchez, and MacKenzie; 1 absent: Miller), the Board of Directors approved the Consent Calendar, including Resolution No. 17-27 approving disbursements.</i>
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A. Vista flume historic documentation

See staff report attached hereto. The Board noted and filed the informational report on the Vista flume historic documentation.

B. Minutes of Board of Directors meeting on June 21, 2017

The minutes of June 21, 2017 were approved as presented.

C. Resolution ratifying check disbursements

RESOLUTION NO. 17-27

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 56341 through 56455 drawn on Union Bank totaling \$830,346.38.

FURTHER RESOLVED that the Board of Directors does hereby authorize the execution of the checks by the appropriate officers of the District.

PASSED AND ADOPTED unanimously by a roll call vote of the Board of Directors of Vista Irrigation District this 5th day of July 2017.

* * * * *

7. DIVISION REPORTS

See staff report attached hereto.

Assistant General Manager Brett Hodgkiss pointed out on page two of the Division Report that the Foreman Deeds affected by the Implementing Agreement had been identified and that staff is developing language for assignment documents that will be presented to the Board for the approval at a future meeting.

Mr. Hodgkiss called the Board's attention to the water conservation information included in the Division Report noting that since the State Water Resources Control Board (State Board) has eliminated mandatory regulations, there is no longer a need to track or report cumulative conservation savings. Therefore, on a go forward basis, staff will only be including monthly conservation savings, consistent with the information that it reports to the State Board, in the Division Report. He reported that the District's water use during May 2017 was 14% less than the same period in 2013.

Mr. Hodgkiss also provided an update on the Flume Relocation project, indicating that the new flume section had passed pressure and water quality testing and that it is anticipated that water will begin flowing later this month.

Director Vásquez asked about the timeline for the Master Plan. Director of Engineering Brian Smith stated that it is anticipated that the Master Plan will be completed by the end of the year.

Director Dorey mentioned that the Master Planning process is complex and asked if there would be a workshop scheduled to review the document, as had been done in previous years. Mr. Smith stated that a workshop would be scheduled at a future date and that staff would keep the Board apprised of the project's progress.

Director MacKenzie asked how frequently Sanitary Surveys of District facilities are conducted. Mr. Wolinski responded that the State Water Resources Control Board staff conducts an audit on the reservoirs as well as other facilities every three years.

8. ANNUAL CONTRACT FOR PAVING SERVICES

See staff report attached hereto.

Mr. Hodgkiss provided an update on the District’s annual contract for paving services. He stated that in previous years the District had issued request for proposals for paving services over 350 square feet. In 2015, the District increased the square footage to 1,500 square feet to reduce the amount of staff’s time spent on the bidding process and respond to road repairs more expediently. As recent efforts to accelerate the District’s main line replacement program have increased the need for additional paving services, expanding the scope of the annual paving contract will further increase operational efficiencies, including reducing the amount of time crews must maintain temporary paving, and allow pavement restoration on larger main line projects to be completed expediently, minimizing the impact on the surrounding community. Staff solicited bids to fifteen contractors and received responsive bids from Anthony’s Paving, Joe’s Paving, Inc. and LC Paving. Staff recommends Joe’s Paving, Inc. provide paving services on District projects requiring less than 8,000 square feet paving. Mr. Hodgkiss stated that larger main replacement projects, those in excess of 8,000 square feet or that cost more than \$50,000, will be brought to the Board for approval.

Brian Smith left the meeting at this time.

17-07-83 *Upon motion by Director Vásquez, seconded by Director Sanchez and unanimously carried (4 ayes: Vásquez, Dorey, Sanchez, and MacKenzie; 1 absent: Miller), the Board of Directors authorized the General Manager to enter into an agreement with Joe’s Paving, Inc. to provide paving services on District projects requiring less than 8,000 square feet of paving for fiscal year 2018 in an amount not to exceed \$600,000.*

9. DISTRICT COMMITTEES AND AD HOC COMMITTEES

See staff report attached hereto.

Mr. Hodgkiss stated that at the June 21 Board meeting General Manager Eldon Boone provided a brief overview of proposed changes to the ad hoc and standing committees that would be placed on a future agenda for the Board’s consideration. He stated that since the San Luis Rey Indian Water Rights (SLRIWR) matter was settled on May 17, 2017, the Indian Settlement ad hoc committee’s limited purpose had been satisfied; therefore, staff is recommending that the ad hoc committee be terminated at this time. Mr. Hodgkiss also stated that staff is recommending that the Board reclassify its Groundwater ad hoc committee to a Standing Committee of the Board, as it is anticipated that the Committee’s purpose will expand beyond addressing matters only related to the enactment of the Sustainable Groundwater Management Act of 2014. He reminded the Board that at its June 21, 2017 meeting President Miller appointed Directors Dorey and MacKenzie to the Groundwater Standing Committee with Director Dorey serving as Chair.

17-07-84 *Upon motion by Director MacKenzie, seconded by Director Vásquez and unanimously carried (4 ayes: Vásquez, Dorey, Sanchez, and MacKenzie; 1 absent: Miller), the Board of Directors terminated the Indian Settlement ad hoc committee and reclassified the Groundwater ad hoc committee to be a Standing Committee of the Board.*

10. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

See staff report attached hereto.

Mr. Hodgkiss updated the Board regarding the San Diego County Water Authority's (Water Authority) lawsuit against Metropolitan Water District (Metropolitan), reporting that a recent Court of Appeal ruling favored the Water Authority on issues related to preferential rights, "water stewardship" charge and "rate structure integrity" clause. He reported that the Court of Appeals ruled in favor of Metropolitan with regard to it charging the Water Authority for costs related to the State Water Project distribution system. Mr. Hodgkiss stated that the Water Authority will appeal the adverse ruling on the issue of the cost associated with the State Water Project to the State Supreme Court.

Mr. Hodgkiss reported that the Water Authority adopted its budget for fiscal years 2018 and 2019, and a 3.7% water rate increase for both untreated and treated water for fiscal year 2018.

Marlene Kelleher and Alisa Nichols left the meeting at this time.

11. MEETINGS AND EVENTS

See staff report attached hereto.

Director Sanchez reported that he will be attending the Leadership Governance Academy next week in Napa and will provide a report at the next Board meeting.

Director MacKenzie reported her attendance at the Association of California Water Agencies (ACWA) State Legislative Committee meeting. She stated that ACWA Executive Director Tim Quinn provided an update on the "Twin Tunnels" project. She also said that there was discussion about SCA 4 (Hertzberg) relative to a "public goods" charge. Director MacKenzie stated that ACWA would oppose any language that added "public goods" charge.

Director MacKenzie provided the Board a copy of a Public Notice from the State Water Resources Control Board related to a water rate assistance program for low-income individuals and families. She mentioned meetings are being held throughout the state, noting that a workshop would be held on August 14, 2017 at the San Diego Regional Water Quality Control Board's office.

Director Dorey reported his attendance at the regular meeting of the San Luis Rey Watershed Council where they discussed groundwater related issues and climate change.

Directors MacKenzie and Sanchez requested authorization to attend the State Water Resources Control Board public meeting on August 14, and Directors MacKenzie and Vásquez to the Council of Water Utilities meeting on July 18.

Mr. Hodgkiss reminded the Board of the requirement to attend a Harassment Training every two years, noting that a majority of the Board last had training in January 2016. He stated that staff is being proactive in scheduling a training and that the potential dates include January 8 and January 11. The Board expressed a preference for January 8, 2018. Mr. Hodgkiss said that he would get back to the Board with the training date once it had been confirmed.

17-07-85	<i>Upon motion by Director Vásquez, seconded by Director MacKenzie and unanimously carried (4 ayes: Vásquez, Dorey, Sanchez, and MacKenzie; 1 absent: Miller), the Board of Directors authorized the following attendances: Directors MacKenzie and Sanchez to attend the State Water Resources Control Board public meeting in San Diego on August 14; Directors MacKenzie and Vásquez to attend COWU meeting in Poway on July 18.</i>
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12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

None were presented.

13. COMMENTS BY DIRECTORS

Director Sanchez thanked Director MacKenzie for sending him information on issues pertaining to the Water Authority and Metropolitan.

Director MacKenzie stated that La Jolla Tribes representative LaVonne Peck contacted her regarding celebration event commemorating the Indian Water Rights Settlement; the event is tentatively scheduled for September 23, 2017. Director MacKenzie had no further information regarding the celebration event.

14. COMMENTS BY GENERAL COUNSEL

None were presented.

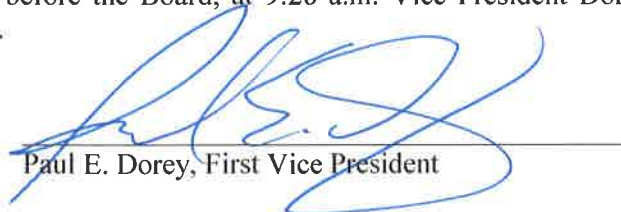
15. COMMENTS BY ASSISTANT GENERAL MANAGER

Mr. Hodgkiss stated that at the June 21, 2017 Board meeting Mr. Boone informed the Board of the drowning incident that occurred at Lake Henshaw and that the District had requested a copy of the Sheriff's report. He reported that the District had received Sheriff's report; however, it could not be released to the Board or public. Mr. Hodgkiss provided a summary of what was contained in the report.

Mr. Hodgkiss commented that the author of SB 623 has not added "public goods" charge language to the bill as of yet; however, the language could be added after it is heard by the Committee on Environmental Safety and Toxic Materials on July 11, 2017. Staff will continue to monitor this bill and provide updates as necessary.


16. ADJOURNMENT

There being no further business to come before the Board, at 9:28 a.m. Vice President Dorey adjourned the meeting to July 19, 2017 at 8:30 a.m.



Paul E. Dorey, First Vice President

ATTEST:


Marian Schmidt, Assistant Secretary
Board of Directors
VISTA IRRIGATION DISTRICT



STAFF REPORT

Agenda Item: 6.A

Board Meeting Date:	July 5, 2017
Prepared By:	Brian Smith
Reviewed By:	Brett Hodgkiss
Approved By:	Eldon Boone

SUBJECT: VISTA FLUME HISTORIC DOCUMENTATION

RECOMMENDATION: Receive informational report on Vista Flume Historic Documentation.

PRIOR BOARD ACTION: On June 22, 2016, the Board approved the Vista Flume Relocation Project and the Flume Relocation Reimbursement Agreement with Shea Homes Limited Partnership; determined that the Vista Flume Relocation Project was exempt from the provisions of California Environmental Quality Act and directed staff to file the Notice of Exemption with the County Clerk; and authorized staff to negotiate a construction contract amount from a qualified licensed contractor.

FISCAL IMPACT: The cost to prepare the Historic Documentation for the Vista Flume was \$23,450.

SUMMARY: As part of previous preliminary environmental assessments conducted by Helix Environmental Planning, Inc. (Helix) for relocation and rehabilitation of the Vista Flume, it was determined that the Vista Flume qualified for nomination to the National Register of Historic Places at a local level of significance and for the California Register of Historical Resources under Criteria A and C. As a mitigation measure, it was recommended that a documentation program be undertaken to document the history of the Vista Flume to Historic American Buildings Survey (HABS) and the Historic American Engineering Record (HAER) standards. This documentation program includes the following:

- Large format photographic documentation of typical sections along each bench;
- Copies of original plans, drawings, blueprints, and other structural data on archival quality paper;
- Comprehensive written record of the Vista Flume's history;
- File documentation with local historical societies (San Diego, Vista, San Marcos and Escondido historical societies) and local libraries as well as the Vista Irrigation District.

DETAILED REPORT: In February 2016, staff engaged Helix to prepare the historic documentation for the Vista Flume. As noted in the introduction of the Historic American Engineering Level Written Documentation for the Vista Flume, the report presents the results of a historic study and assessment of the gunite bench flumes, tunnels, and above and below ground siphons of the main potable water conveyance system of the Vista Irrigation District (VID Flume) between the outlet of the filtration plant at Dixon Reservoir on the east and Pechstein Reservoir on the west. All required photographs, original plans, drawings, etc. have been reproduced on the proper media and all of the documentation has or will be sent to the above listed historical societies, local libraries and filed at the District.

ATTACHMENT: Historic American Engineering Level Written Documentation - Vista Irrigation District Main Water Conveyance

HISTORIC AMERICAN ENGINEERING LEVEL WRITTEN DOCUMENTATION

VISTA IRRIGATION DISTRICT MAIN WATER CONVEYANCE SYSTEM

by

STEPHEN R. VAN WORMER and SUSAN D. WALTER

November 2016

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Introduction

This report presents the results of a historic study and assessment of the gunite bench flumes, tunnels, and above and below ground siphons of the main potable water conveyance system of the Vista Irrigation District (VID Flume) between the outlet of the filtration plant at Dixon Reservoir on the east and Pechstein Reservoir on the west (Figures 1 and 2). Major sources for historic information on the flume's development were provided by Vista Irrigation District and included: Annual Report 1926 -1927; Annual Report 1975-1976; Bond Issue 1924; Chief of Engineers 1926; Kennedy Engineers 1979; Kennedy/Jenks 2005, 2010; Powell and Associates 1996; and Vista Irrigation District 2013.

Significance

Constructed between 1925 and 1927, the Vista Irrigation District bench flumes, tunnels, and siphon segments qualify for listing on the National Register of Historic Places and California Register of Historical Resources. As the District's main water conduit for over 85 years the structures have been indispensable in the area's development. In addition, the flumes and siphon are also considered to be eligible for their unique design and method of construction. These resources retain integrity of location, design, setting, materials, workmanship, and feeling and association for the role of the structures in the area's development during the middle and last half of the 20th century (Van Wormer 2009).

Physical Description

The Vista Irrigation District main water conveyance system runs for a length of 11.25 miles. It runs between the intake at the filtration plant at Dixon Reservoir on the east end of the District boundary to Pechstein Reservoir on the west. Several laterals were taken off the main conduit before it reached its western terminus. However, the greater portion of the District's water passes through this reservoir.

The system includes approximately 2,044 feet of tunnels, 33,234 feet of gunite bench flume, and 25,754 feet of siphon, constructed of 42-inch reinforced concrete or riveted steel pipe. The gunite bench flumes run along various ridges and are connected by the steel and concrete pipe siphons that convey the water across canyons and valleys between the ridges where the flumes are located.

BENCH FLUMES

The various bench flumes include MW Bench, Twin Oaks Bench, Borden Bench, Beehive Bench, Pearson Bench, MD Bench, Finkbinder Bench, Kornhauser Bench, Baumgartner Bench, Daley Bench, Tunnel Bench, and Jack Creek Bench.

The bench flumes are all built as above-ground gunite canals with a domed gunite cover. They are constructed of welded wire mesh sprayed with gunite and rest on a wide graded roadbed (Figures 3 through 9). The roadbed and the flumes were built at the same time. In cross-section, the exterior of the bench flumes measures 3 feet 4 inches in depth by 4 feet 7 inches wide. At its center, the top of the arched gunite cover is around 12 inches higher than the top edges of the sidewalls (see Figure 5). The walls and cover are about 2 inches thick.

The sidewalls of the bench flumes were reinforced by bending #6 galvanized wire mesh through ½-inch square bar. The bottom reinforcement consisted of #12 electrically welded galvanized wire mesh. The top rails of the flumes were held together with 2-inch square pre-cast concrete bar, containing a ¾-inch steel rod.

Since 1990 the interior of the bench flumes has been lined with high density polyethylene (HDPE) in an attempt to prevent seepage. This consists of a continuously welded HDPE sheet lining that extends from near the top of one wall down across the bottom and up the other wall, effectively constructing a U-shaped sheet lining system. Where seams were formed at the ends of the material a thermal weld was used to develop a continuous HDPE sheet running inside the flumes. At access manholes located at the entrance and exit connections of the flume to the siphons, the HDPE lining material was glued to the gunite flume surface with epoxy. In 2010 the MW Bench was modified by the insertion of HDPE pipe.

SIPHONS

Owing to the rolling nature of the land in the District, nine concrete and steel pipe siphons are required for transporting the water from one ridge to another (Figures 10 through 12). Siphons include Meyers, Twin Oaks, Bee Hive, Jones, Pearson, Caldwell, Rincon, Baumgartner, and Pleasant Valley. These siphons cross valleys or small drainages and comprise approximately 5.0 of the 11.25 miles of the transmission system. The flume and siphon system operates as gravity flow and pressurized system, respectively. Gravity flow is maintained in each of the flumes. Pressurized flow occurs in each of the siphons. The elevation of water in each siphon seeks a level required to transport (drive) the flow of water incoming from the gravity flume at its inlet. In other words, the intake point of each siphon at its east end is higher than its outlet on its west end so that water pressure will cause the water to flow via the siphons from the ridge

at the terminus point of one bench flume down hill across the valley and back up to the next bench flume's intake point (see Figure 10). For the most part, the siphons are underground. The only major above-ground portion is at the east end of Twin Oaks Siphon (see Figures 11 through 12).

TUNNELS

The two tunnels in the system are designated Big Tunnel (Tunnel # 2) and Little Tunnel (Tunnel # 3) (Figures 13 through 14).¹ Big Tunnel was excavated through hard rock between Jack Creek Bench and the Big Tunnel Benches. Its length is approximately 1,400 lineal feet. The tunnel cross-section is typically 5 to 6 feet in width and approximately 7 to 8 feet in height. The rock of the tunnel walls, floor and ceiling is solid for the majority of the alignment, with no shoring or cribbing in evidence. There are two areas where the fractures in the rock were severe enough that a concrete inner liner was installed in the tunnel to provide support. Little Tunnel is a section of 48-inch diameter buried concrete pipe located between Daley and Baumgartner Benches.

¹ Tunnel # 1 no longer exists. It was located east of present day Dixon Lake.

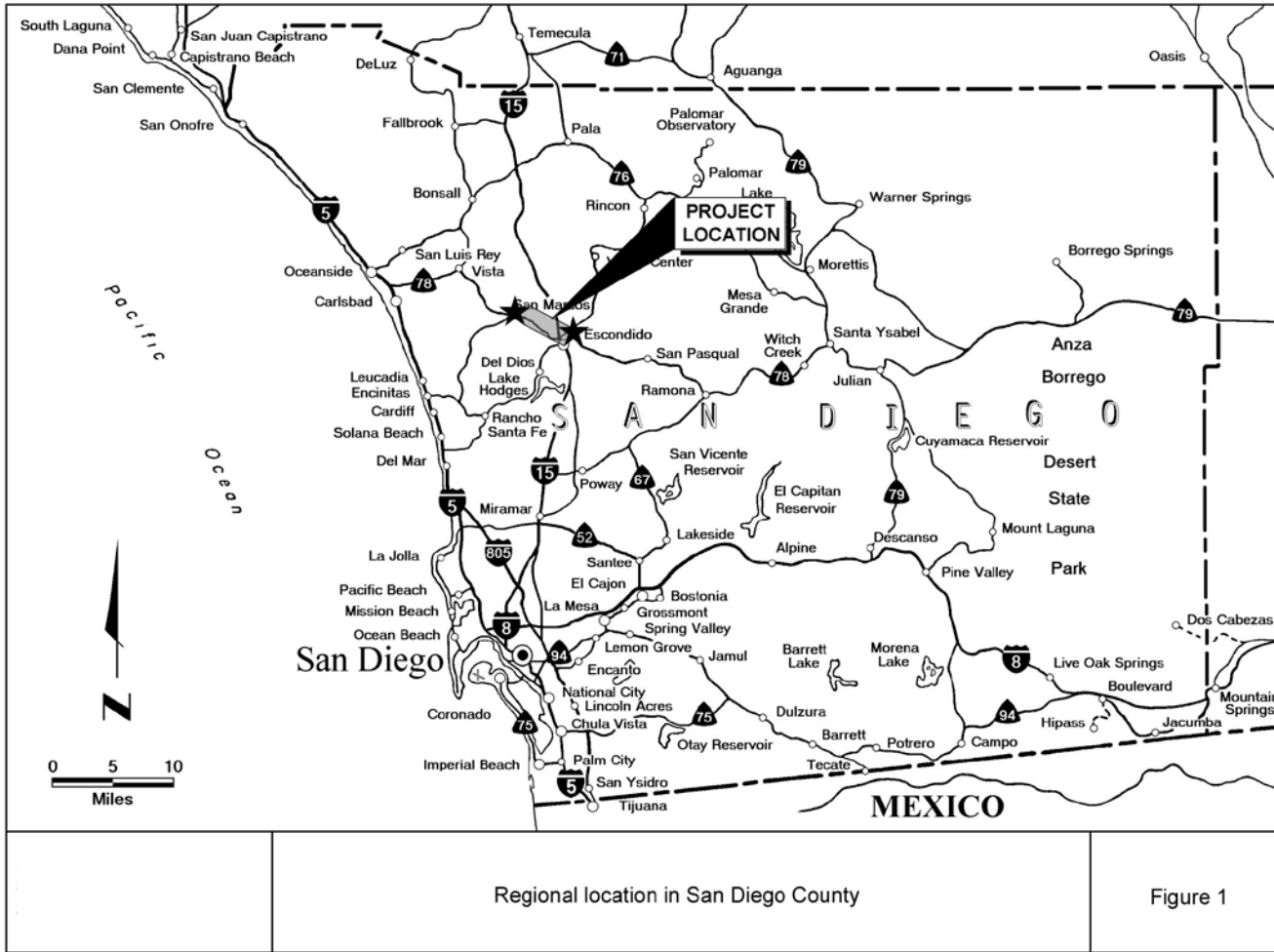


Figure 1: Project Location.

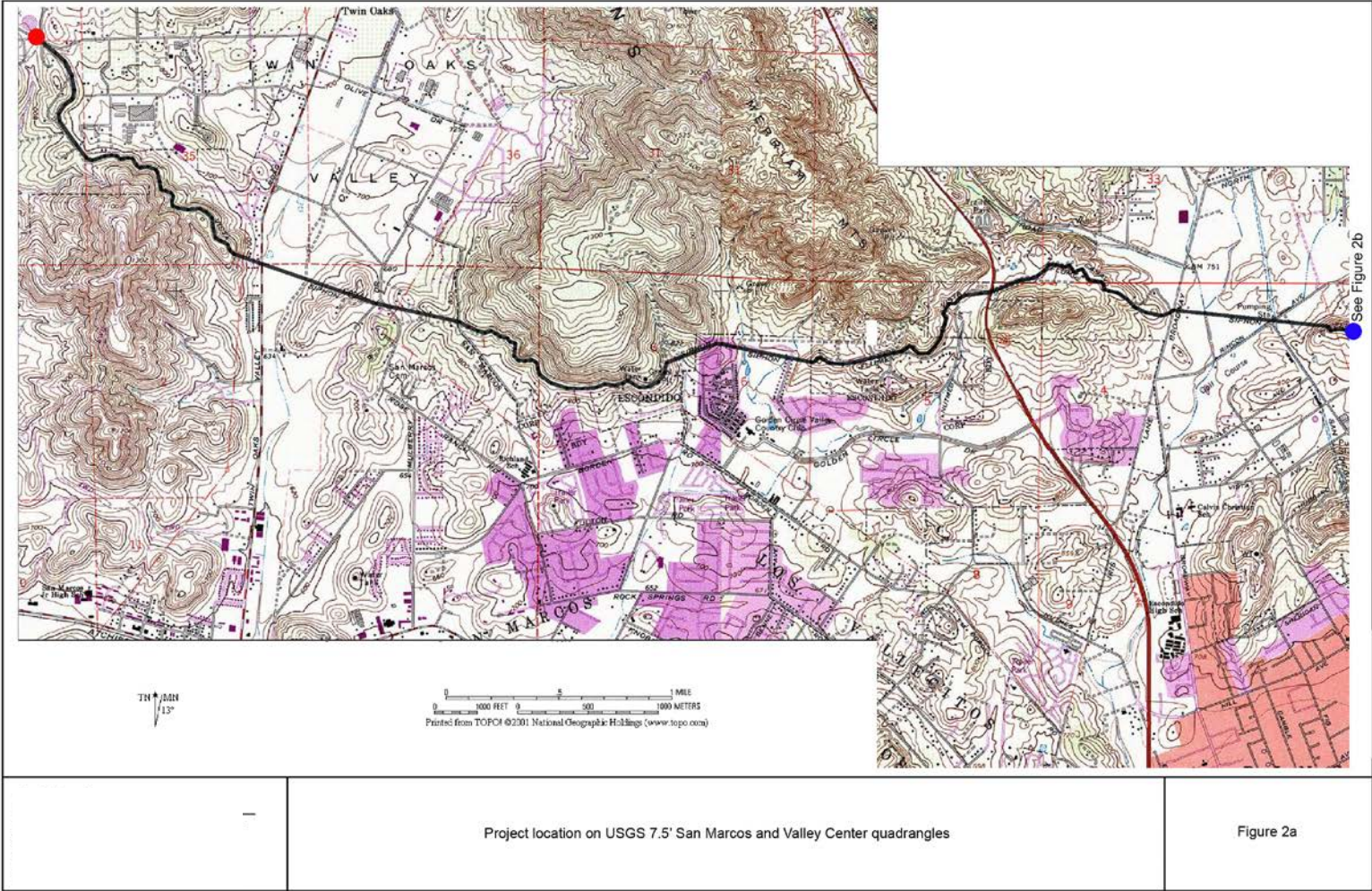
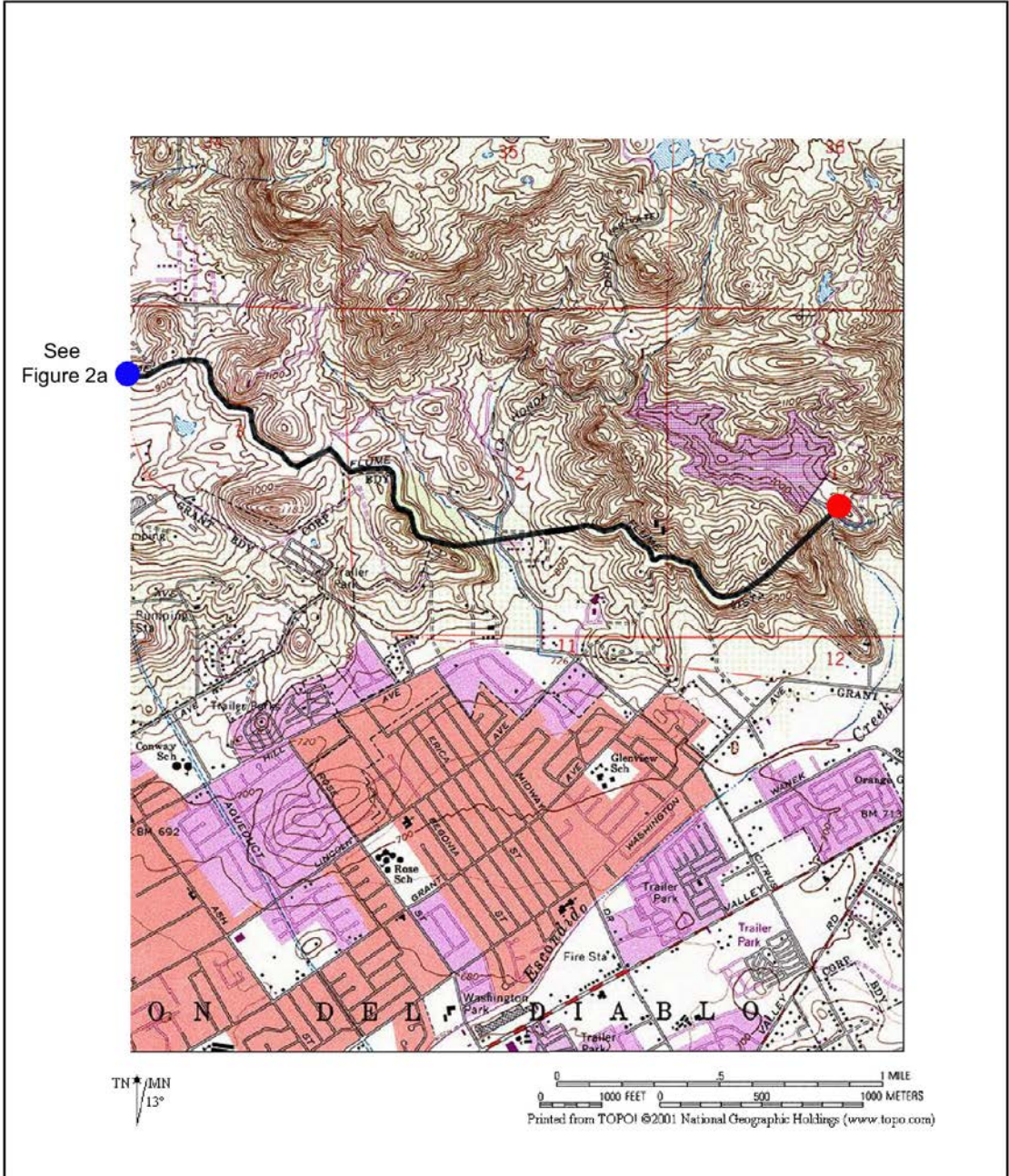


Figure 2A: Project Location on USGS Quadrangle.



See
Figure 2a

TN*/MN
13°

0 1000 FEET 0 500 1000 METERS
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Project location on USGS 7.5'
Valley Center quadrangle

Figure 2b

Figure 2B: Project Location on USGS Quadrangle.

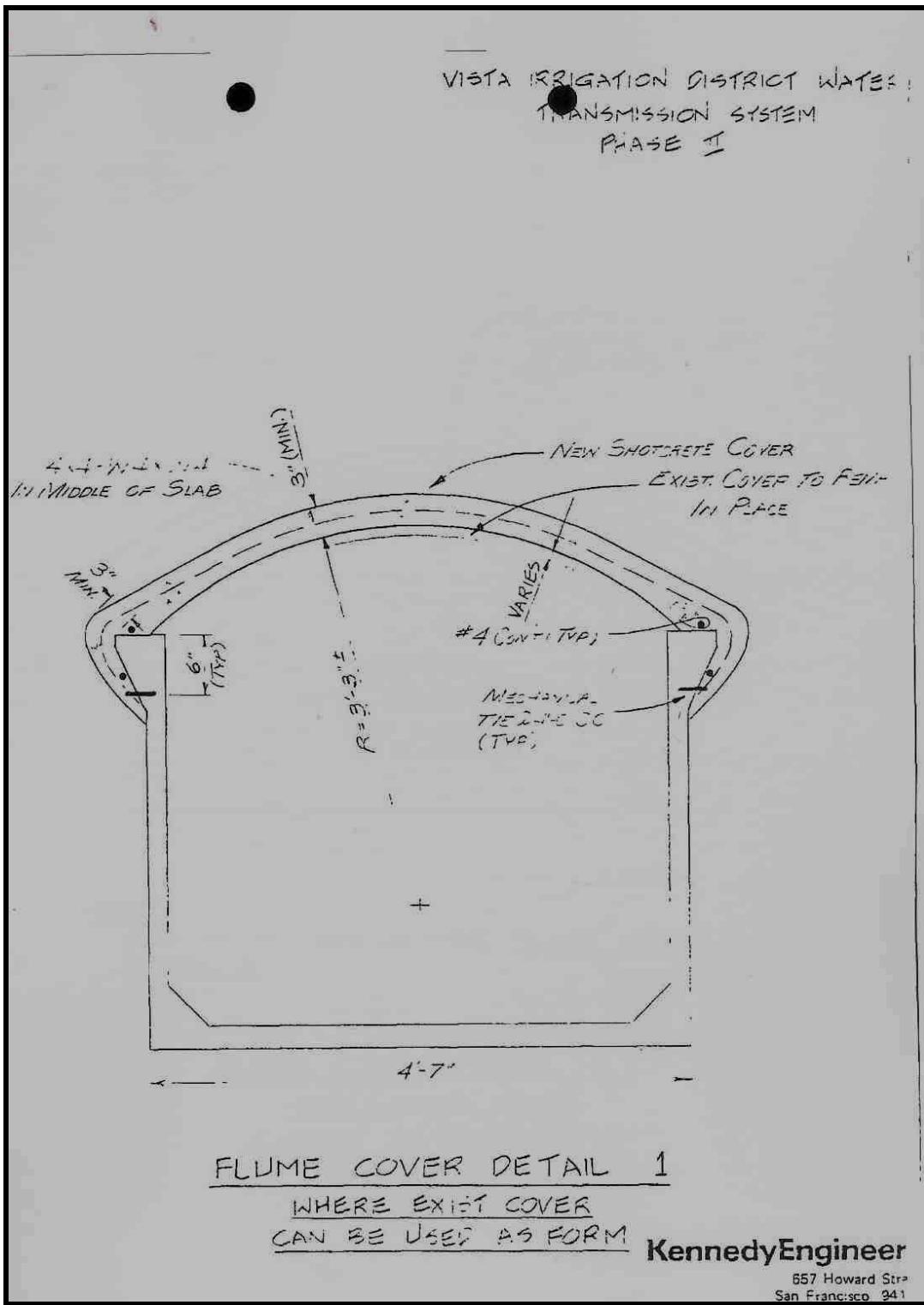


Figure 3: Typical bench flume cross-section diagram.



A



B

Figure 4: Flume modifications. A: steel access doors. B: small access port.

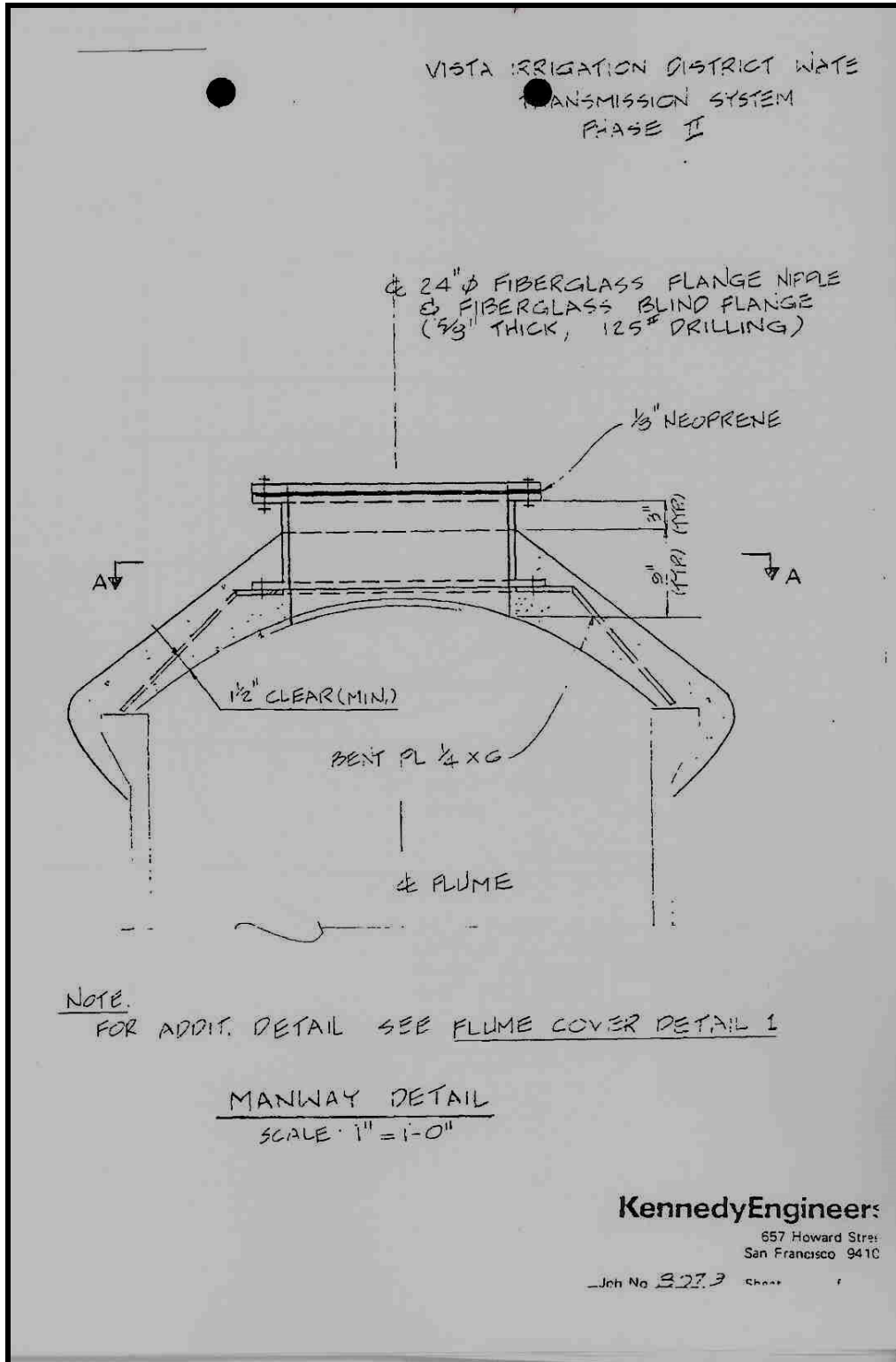


Figure 5: Access port diagram.



A



B

Figure 6 A & B: Typical flume sections on Baumgartner Bench through avocado groves. The setting immediately adjacent to the flume has remained largely unchanged for many decades.



Figure 7: Typical flume section east of Pechstein Reservoir.



Figure 8: Typical concrete box at end of flume, where it is connected to an underground siphon.



A



B

Figure 9 A & B: Flume sections in unaltered setting along Daley Bench hillside.

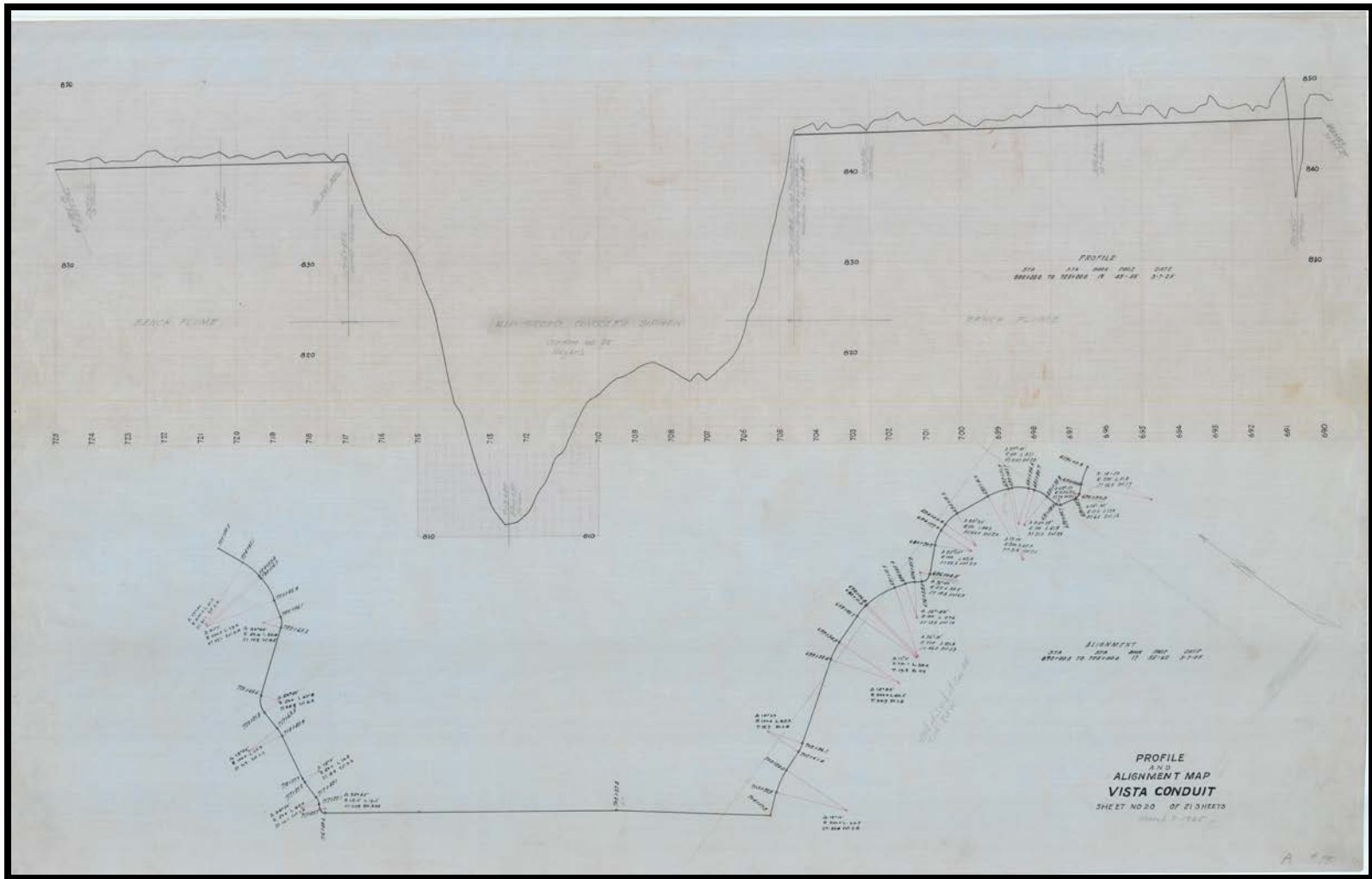


Figure 10: Profile sheet showing one of the elevation changes between benches that required spanning with a siphon. This example is for Meyers Siphon.

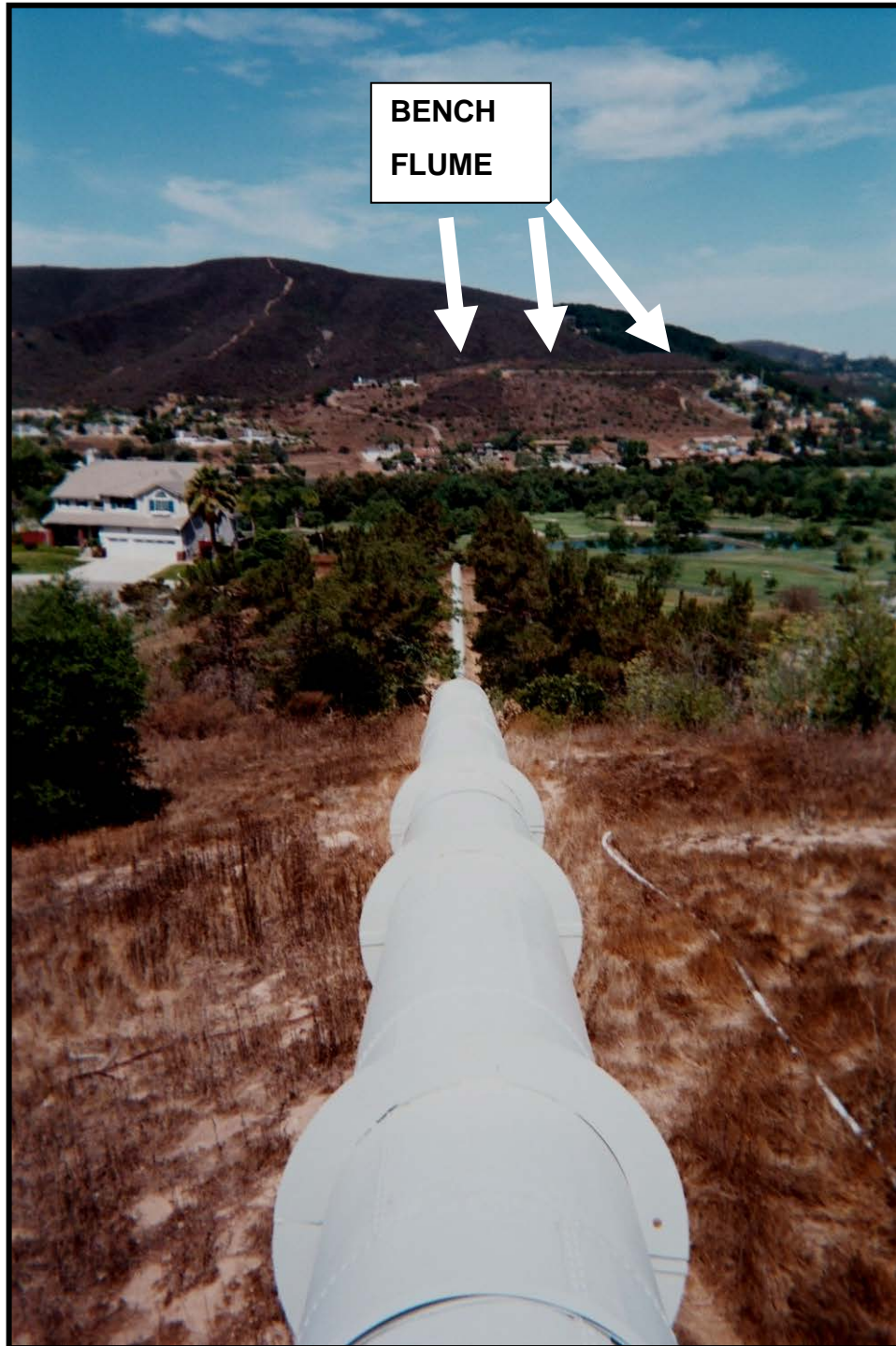


Figure 11: Above-ground steel pipe portion of the Twin Oaks Siphon in foreground. Twin Oaks Bench Flume along the ridge in the background.



Figure 12: Typical above-ground steel pipe supports of Twin Oaks Siphon across shallow ravines.



Figure 13: The hard rock interior of Big Tunnel (Tunnel # 2).

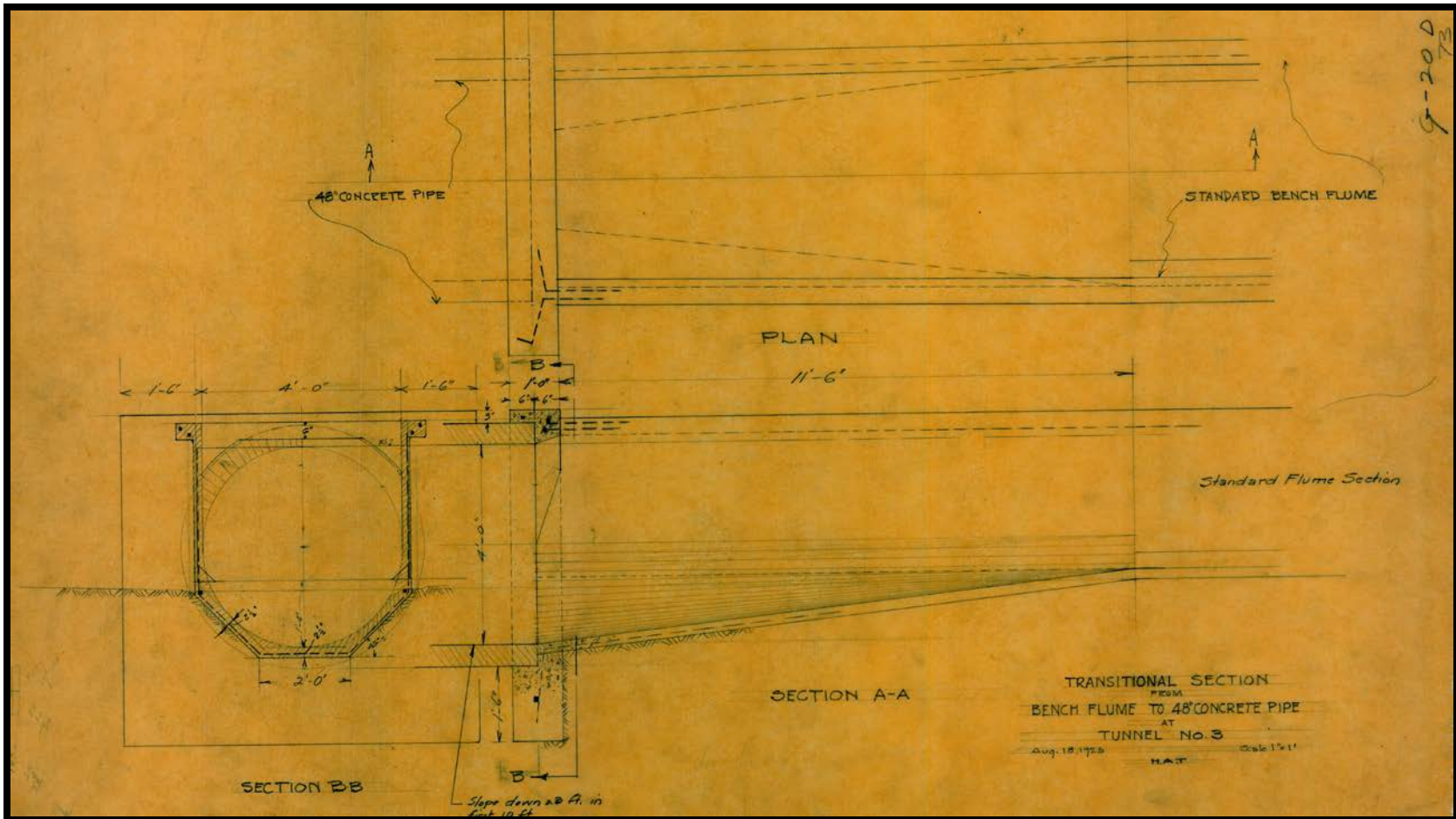


Figure 14: Drawing of the transition from bench flume to the concrete pipe of Little Tunnel (Tunnel # 3).

Historical Context

The Board of Supervisors of San Diego County declared the Vista Irrigation District legally established on September 11, 1923. The District embraced practically 18,000 acres of land in northern San Diego County. The town of Vista, where the offices of the Board of Directors were located, was at the geographical center of the District and on the Escondido branch of the Santa Fe Railroad, which traversed the region.

The area consisted of gently rolling hills sloping from the base of the San Marcos Mountains westerly toward the coast. Rainfall and temperature records maintained at Vista between 1916 and 1923 showed an average rainfall for that period of 16.4 inches per annum, while the mean for Oceanside and Escondido averages for a longer period gave figures of 14.5 inches yearly.

The bond that established the District was for \$1,700,000.00, issued November 15, 1924. The money was to be used for the construction of the irrigation system, funding two years' interest on the bonds, and to provide a contingent and reserve fund (in bonds) for such future needs.

The purpose of the project was to promote agricultural development and increase property values. During this period the Vista area produced citrus - especially lemons - avocados, loquats, grapes, peaches, plums, subtropical fruits, vegetables, as well as nursery stock and winter plants. These crops were irrigated with well water. Development of a water distribution system would greatly expand the area of productive lands, and it was estimated that land worth \$100 per acre at the time the bond was issued would rise in value to \$500, or in some cases \$1000 per acre immediately upon the arrival of water for irrigation.

Of the 18,000 acres comprising the District, nearly 4,000 acres were deemed infeasible for irrigation, and those property owners waived their right to demand water to which they were otherwise entitled. However, because they remained within the District they had access to any unused or excess water that might become available. As a result of these waivers, the area within the District entitled to demand water was 13,000 acres.

The water supply of the District was the run-off of the San Luis Rey River watershed, which comprised an area of 210 square miles, all lying between 2,000 and 6,500 feet above sea level. The water was impounded in Lake Henshaw near Warner's Ranch.

The dam which formed Lake Henshaw was owned by the San Diego County Water Company and built under the supervision of J.B. Lippincott and Rex Starr in 1923. The capacity of the reservoir was 164,000 acre feet. The dam has been modified over the years leaving the current capacity of Lake Henshaw at 51,774 acre feet. Under a contract with the San Diego County Water Company the Vista District was entitled to 13,000 acre feet of water per year from Lake Henshaw, which constituted an acre foot per year for every acre entitled to water within the District.

In order to deliver water to the Vista Irrigation District, it was to be conveyed by the San Diego Water Company from Lake Henshaw to Lake Wohlford northeast of Escondido. This reservoir was owned by the Escondido Mutual Water Company which contracted with the Vista District for the use of its reservoir. The Vista District would take delivery of its water at the outlet of Lake Wohlford. In addition to Lake Henshaw, Vista District also intended to develop additional underground water sources by pumping the San Luis Rey River bed.

The distribution system for Vista Irrigation District was designed by J.B. Lippincott and Associates and consisted of a cement-lined main canal from the

water delivery point at Lake Wohlford to a reservoir at the eastern boundary of the District. The design was developed to facilitate the use of steam shovels and other labor saving devices available in the 1920s.

After entering the boundaries of the District, the same type of cement-lined ditch was to be extended along the northern edge of the District to its terminus. At proper intervals cement pipelines, supplemented by steel where necessary, would take off from the main canal and extend southerly and westerly across the District. These main laterals were to be tapped in turn by sub-lateral pipelines to permit distribution of water to the high point of each 40-acre tract.

Following sale of the bonds, Vista Irrigation District hired Mr. J.B. Lippincott as Consulting Engineer and K.Q. Volk as Chief Engineer in charge of construction work. Surveys, designs, and estimates were made for the main conduit consisting of concrete pipe, concrete flume, steel pipe, and tunnels having a length of 12.5 miles, to carry the water from the intake to the east end of the District boundary, at Pechstein Reservoir – the main holding facility at the end of the main conduit, as well as 130 miles of delivery conduits and pipelines; and five small reservoirs. The estimated cost was \$1,302,000.00. The first ground was broken on May 16th 1925.

In the meantime, bids for building the main conduit had been solicited. In April 1925 contracts were awarded to K.S. Littlejohn Co. for \$27,142.00 to build three tunnels, Western Pipe and Steel Co. for \$97,035.89 for steel siphons, Elliott & McKenna for \$50,000.10 for concrete pipe, and David H. Ryan for \$168,819.00 to construct the bench flumes.

The same month, contracts were awarded for construction for the main distribution system and included Stroud Bros. & Seabrook for \$91,846.00, for excavation and backfill, Escondido Cement Products Co. for \$133,722.30 to

produce and lay concrete pipe, and Baker Iron Works for \$216,496.81, for making and laying riveted steel pipe.

In September, contracts for reservoir construction were awarded to L.J. Turner for \$52,565.49 to build Pechstein Reservoir, Stroud Bros. & Seabrook for \$18,786.74 for construction of two circular reservoirs, and Elliott & McKenna for \$27,032.19 for construction of 3 other circular reservoirs.

By late 1926, work on the main conduit and Pechstein Reservoir had been completed. Water from the Henshaw Reservoir ran down the San Luis Rey River to the intake of the Escondido Mutual Water Company's flume through which it flowed to Lake Wohlford. From there the water ran to a power house built by San Diego Water Company below Lake Wohlford. The delivery point of the Vista Irrigation District's water was at the tail race of the power house. From this point the water was transported by the main conduit constructed by Vista Irrigation District.

Built through rugged hillside country, this conduit ran for 12.8 miles and had a capacity of 44 cubic feet per second. It included 2,000 feet of tunnels, 7,300 feet of 42-inch gravity concrete pipe, 4,600 feet of 42-inch reinforced concrete pipe, 16,000 feet of 36-inch and 40-inch riveted steel siphon, and 35,000 feet of gunite bench flume. The main conduit terminated at the Pechstein distribution reservoir with approximately 200 acre feet capacity. Although several laterals were taken off the main conduit before it reached this point, the greater portion of the District's water passed through this reservoir.

Construction of the gunite bench flume was completed in 1926. Flume dimensions were 3 feet 4 inches in depth by 4 feet 7 inches in width. Sidewalls were only 2 inches thick and the bottom 2 1/2 inches (Figure 15). Reinforcing of the sidewalls consisted of electrically welded #6 galvanized wire mesh. Sidewalls were reinforced by bending the mesh through 1/2-inch square bar. The bottom of

the conduit was reinforced by #12 electrically welded galvanized wire mesh. The top rails of the flume were held together by pre-cast concrete bar 2 inches square containing a $\frac{3}{4}$ -inch steel rod. These bars were placed at 8 foot intervals along the flume.

The method of construction consisted of excavation of a roadway to proper grade, width, and location on which the gunite bench flume was built. After the roadway was roughly graded the materials for construction were hauled by truck and deposited on the outside of the roadway. When all materials were in place, the subgrade was thoroughly wet down and tamped to avoid settlement (Figure 16).

Next, the wooden forms for building the flume were set to proper alignment and grade by crews of form setters. These light forms allowed the carpenters to set them continuously, and curves could easily be made by bending the forms, rather than needing to build new ones for each curve (Figure 17).

First, the mesh for reinforcing the bottom was laid on the finished subgrade and the forms set thereon, after which the reinforcing crews placed the wire mesh for the sidewalls and rail, rigidly securing them in position. Placing of the reinforcement required considerable care as the walls were only 2 inches thick. Finally, the wire mesh was sprayed with gunite to form the structure of the flume (Figures 18 through 21).

The sidewalls and fillets at the junction of the floor and sidewalls, together with part of the rail, were shot first. After approximately a fifteen minute interval, the balance of the rail was completed by spraying on an additional layer. The forms were generally stripped within 48 hours after construction of the flume. Frequently, however, forms were stripped within 24 hours and the flume filled with water so as to receive its maximum stress within this period of time. In order to do this, small wooden dams were placed in the flume at the end of each day's

run and water pumped in until the dams were filled. The flume was constructed as a monolithic structure and had no expansion joints. Two gunite crews were employed on this work, each crew consisting of approximately 28 men. Daily progress varied from 150 to 200 linear feet. The flume's design would be considered substandard under today's building codes, because of its limited use of reinforcing steel and relatively thin wall and floor sections.

Owing to the rolling nature of the land in the District, five concrete and steel pipe siphons were required for transporting the water from one ridge to another (Figures 22 through 26). These siphons cross stream valleys and comprise approximately 4.30 of the 12 $\frac{3}{4}$ miles of the transmission system. The flume and siphon system operates as gravity flow and pressurized system, respectively. Gravity flow is maintained in each of the flumes. Pressurized flow occurs in each of the siphons. The elevation of water in each siphon seeks a level required to transport (drive) the flow of water incoming from the gravity flume at its inlet.

The main distribution line of the District followed along foothills at a high elevation, with the main laterals taking off at proper intervals and carrying the water to various points of the District. Six circular concrete regulating reservoirs were provided for controlling the flow to various laterals. The system was designed to provide both irrigation and domestic water.

By December 31, 1927 the following work had been completed on the main conduit between the outlet at Lake Wohlford and Pechstein Reservoir (Figure 27):

Concrete Pipe 42-inch Gravity	6,065 feet	1.15 miles
Concrete Pipe 42-inch Siphon	3,938 feet	.74 miles
Steel Pipe Siphons	18,786 feet	3.56 miles
Concrete Flume on Side Hills	35,400 feet	6.70 miles
Tunnels through Mountain	2,074 feet	.39 miles
Total		12.54 miles

Establishment of the distribution system brought remarkable growth within the District. Crop production increased over 100 percent. Nineteen subdivision maps were filed for the area, covering 3,633 acres divided into 1,705 lots and acreage tracts, and 43.61 miles of graded roads. Population increased from 337 in January 1926 to 1,067 by January 1928. A report noted that:

The town of Vista, while not large enough to be incorporated, has been growing rapidly and now has two lumber yards, a concrete pipe manufacturing plant, newspaper and publishing plant, hardware store, feed store, two grocery stores, an electric bakery, four restaurants, two hotels, two pool halls, one barber shop, two garages with service stations, one super service station, two black smith shops, two plumbing shops, four vegetable packing sheds, and a drug store (Annual Report 1927-1928).

Over the years, sources of water for the District increased. The original source of water dating from 1926 was Lake Henshaw, which was purchased by the District, including the 43,000 acre Warner Ranch, in 1946. Because of a need for additional water the District joined the San Diego County Water Authority in 1954 and connected to the 1st and 2nd San Diego Aqueducts, thereby assuring a reliable source of supply during years of low rainfall. Since that time more than 50 percent of the water supply has been obtained from the aqueduct system. Regardless of this other source, a portion of the District's water is still delivered via Lake Wohlford and the gunite flumes.

In 1947, after 20 years of service, a repair and maintenance program was begun on the conduit system between Lake Wohlford and the Pechstein Reservoir. Seven miles of open flume were covered with a reinforced concrete arched cover, and five steel siphons totaling 4.3 miles were lined with concrete mortar. Work was completed during the spring of 1955.

The thin-shelled flume covers had two methods of construction. Some portions were constructed of gunite. Backing for the gunite sections (the first constructed) was building paper which was placed on top of small diameter reinforcing bars shaped to form the arch. Wire mesh was then placed on top of the paper as reinforcing for the gunite. A similar method was used for the remaining work, except that hand-placed mortar was used in place of gunite (Figures 28 and 29). The backing in this case was paper-backed mesh of the type frequently used for stucco reinforcing.

When the work was completed the operational and functional features of the District's main conduit were in better condition than they had been for many years. The system was tested and "for the first time since the system was completed in 1925 it was up to its design carrying capacity of 44 cubic feet per second". In addition, yearly maintenance work was undertaken to patch cracks and conduct other minor repairs on the flumes.

In 1976 a major change in the distribution system occurred with completion of the Escondido-Vista filtration plant below Dixon Dam. The eastern terminus for the conveyance system was now at the outlet of the filtration plant at Dixon Reservoir. This shortened the length of the flume from its original 12.54 miles to its current 11.25 miles.² The plant provided filtered water for the City of Escondido and the Vista Irrigation District. Filtered water became available from the plant on October 1, 1976. Dixon Dam had been constructed in 1971. In 1978

². In spite of no longer being a portion of the current potable water conveyance system, the portion of the flume east of the filtration plant is still active. It supplies VID's portion of local raw water from Lake Henshaw to the Escondido/Vista Filtration Plant and is part of the raw water side of the flume conveyance system.

a cathodic protection system to inhibit corrosion of the exterior surfaces of the steel siphons was implemented. By 1979 Pechstein Reservoir, at the end of the main conduit system, had been rebuilt (Figure 30).

A 1979 report of inspection of the Vista Irrigation District's water transmission system between Dixon Dam and Pechstein Reservoir noted the following:

The paper and wire backing for the cover of the bench flumes had rusted out, and the arched flume cover were seldom bonded to the top of the flume wall.

The original $\frac{3}{4}$ -inch bars used as ties across the top of the flume had rusted so badly that their effectiveness needs to be totally discounted.

The walls of the flume had innumerable vertical cracks attributed to a combination of shrinkage and temperature stresses induced in the long flume sections. Very few of these cracks indicated leakage, and most of those which had leaked had self sealed.

Some relatively large horizontal cracks were observed in the flume walls; usually a short distance above the concrete fillet between the flume wall and bottom slab of the flume. Generally, these cracks were about 12 feet long, and indicated leakage.

Field tests on the concrete flume, using a Schmidt Hammer, indicated the quality of the concrete was good.

Finally, the inspection revealed that many of the patches which have been made to cover small holes or large transverse cracks in the arched cover had failed.

The report recommended the existing flume cover be used as a form to support a properly designed new gunite cover. Major cracks in the walls which showed leakage or which had the potential to leaks should be repaired with gunite patches on the exterior face. Additional cracks in the flume walls which showed a potential for leakage and major cracks in the bottom slab could be repaired from inside the flume by using modern materials and procedures during periods when the system was shut down.

The cover repairs were undertaken during the 1980s (Figure 31), and in 1989 a program was initiated to rehabilitate the flume with HDPE liners in an attempt to prevent seepage. This consisted of installing a continuously welded HDPE sheet lining that extends from near the top of one wall, down across the bottom, and up the other wall, effectively constructing a U-shaped sheet lining system. Where seams were formed at the ends of the material a thermal weld was used to develop a continuous HDPE sheet running inside the flumes. At access manholes located at the entrance and exit connections of the flume to the siphons, the HDPE lining material was glued to the gunite flume surface with epoxy. After about 1990, the liners were extended to a height of 30 inches.

A 1996 inspection report determined that in general, the flume was well maintained and in overall good condition. Problems were noted in three categories: loss of water through seepage or spills caused by deterioration of the facilities – in particular, the reinforced concrete bench sections - due to age; susceptibility to service interruption from mud or rock slides or failure under severe seismic loading; and potential for water quality degradation during conveyance. General concerns of the bench flumes included leakage from cracks in the reinforced concrete sections of the flume (Powell and Associates 1996).

A report completed in 2005 recommended a major upgrade to the gunite bench flumes. After 85 years of “outstanding service” the process of aging had taken a

toll on the integrity of their construction. Changes noted visually include the rusting and almost complete loss of the horizontal inch square reinforcing bars installed perpendicular to the flume, at the top of the walls, and rusting of the interior mesh of the domed cover as a result of the attack from chlorine contained in the potable water carried by the flume. Changes in chemistry of the original gunite material as a result of chlorine exposure over the years were also suspected. The report noted that the longevity of the original flume as the primary conveyance system for the District's water had expired. The primary conveyance system had been replaced in 1999 from the gunite flume to the flume lined with HDPE sheet lining. This reduced or eliminated leakage from the flume but provided no added structural value. It was recommended that HDPE pipe be installed within the flumes. A pipe installed within the flume would change the function of the gunite channels from hydraulic to structural and extend their useful life. Under this scenario the existing flume would protect the new pipe and provide insulation to limit thermal changes, reducing contraction and expansion issues.

This project would require new applications of this technology. For years HDPE pipe has been used to slip a new pipe into an old one. However, installation of HDPE pipe within the flumes was an unusual application. While a difference in cross-section does not present a particular problem, the weakness of the flume is an issue. For this reason installation of HDPE pipeline within the flume could not use the generally accepted "brute force" method. The flume would require a combination of pushing, pulling, and perhaps floating the pipeline to complete the installation (Kennedy/Jenks 2005).

At the entrance and exit of each flume a connection to an adjacent siphon would be needed. Both horizontal and vertical alignment issues needed to be incorporated into a pressurized connection to accomplish this transition.

In addition a 2008 study concluded that three concrete siphons (Beehive, Pearson, and Meyers) needed to be rehabilitated, as well as parts of the steel Twin Oaks Siphon. It was recommended that the siphons would be rehabilitated at the same time as the adjoining flumes were shut down for lining. If all 11 miles of flumes were to be converted to pipeline and connected to the existing siphons, the conveyance system would become a single pipeline from the Filtration Plant to Pechstein Reservoir.

In fiscal year 2008 Vista Irrigation District commenced funding the Vista Flume Pressurized Pipe Project. Kennedy/Jenks was selected as the engineering consultant to begin performing feasibility and pre-design studies. In fiscal year 2010, the District authorized and successfully completed a pilot project which demonstrated that HDPE pipe slip-lining technology was feasible within the flume structure, with certain limitations.

Construction of the Pilot Project began in January 2010 and was completed the following April at a total cost of \$1,130,000. The project lined the MW Bench, east of the Pechstein Reservoir with 2,200 lineal feet of 42-inch outside diameter SDR 26 HDPE pipeline. The pipe had an approximate inside diameter of 38.58 inches. The work occurred alongside Robin Hood Road beginning near the intersection with Bluebird Canyon Road and Buena Creek Road. In order to establish an insertion point, approximately 100 feet of flume was cut and then demolished. Following insertion of the pipe, the demolished section was repaired by encapsulating the HDPE pipeline in concrete. The pipe was wrapped with a closed cell foam sheet with a thickness of 1.5 inches. The purpose of the foam was to accommodate an outward expansion of the HDPE pipe and to allow longitudinal movement if stresses developed due to temperature change or other factors. After placement of the foam, an external concrete form and rebar were installed and the concrete was poured around the foam covered pipe. The foam effectively alleviated the need to form the inside of the flume (Figures 32 and 33).

In March of 2012, Black & Veatch Corporation (B&V) was hired to prepare a Water Supply Planning Study to evaluate the existing condition of the flume as well as a cost of water evaluation. The study concluded that rather than rehabilitation with HDPE pipe, the District's least expensive option was to repair the bench flume roofs (covers), which would extend the flume's life 20-30 years. The estimated cost for this work is approximately 4 million dollars, as opposed to complete replacement of the structures, which would cost \$25 million. Based on these estimates the proposed cover replacement project is viewed as having the greater value to the District at the present time (2016-2017).

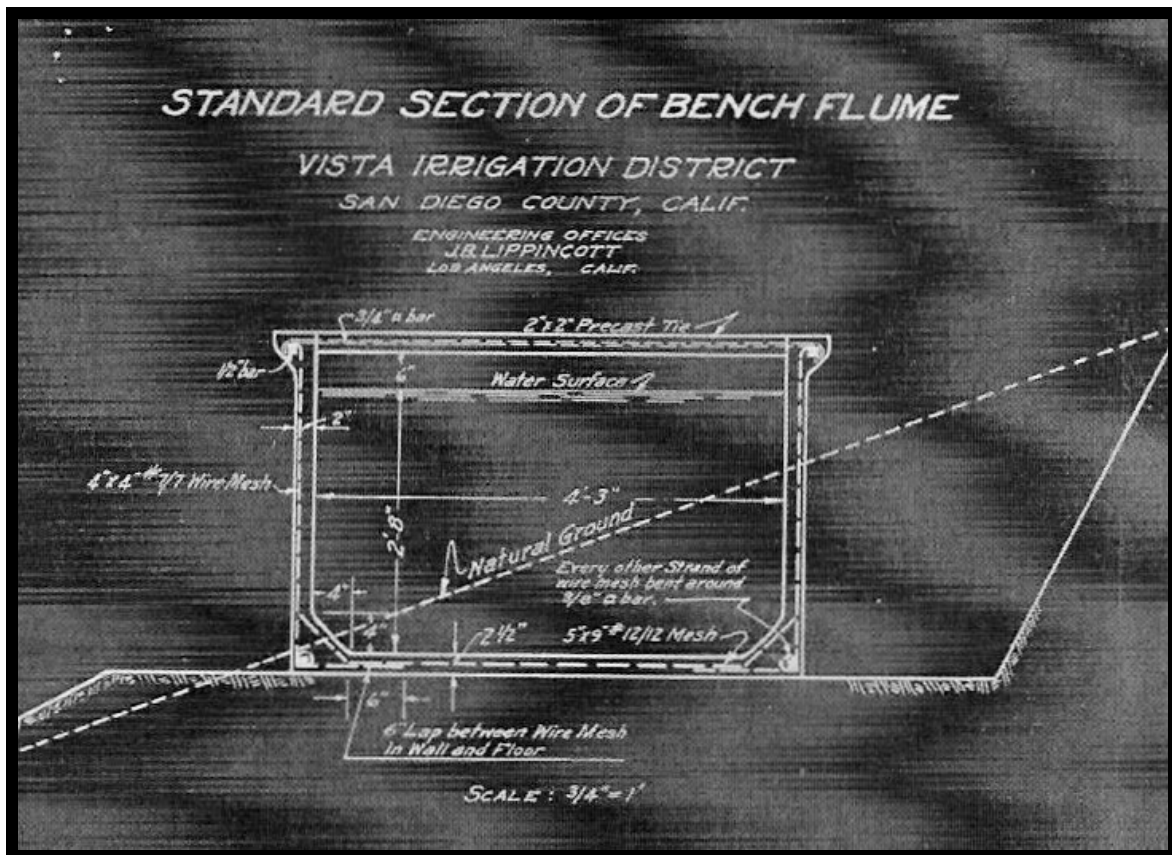


Figure 15: Standard section of bench flume as originally constructed.



Figure 16: The first step in constructing the flume was to build the road bed.



Figure 17: Gunite bench flume construction 1926. Note the welded wire mesh held in place by wooden forms (Courtesy Vista Irrigation District).



Figure 18: Gunite crew working on flume 1925.



Figure 19: Gunite process at Finkbinder Bench in 1925.



Figure 20: Newly completed Twin Oaks Bench, with water flowing in it.



Figure 21: Overflow spillway on Tunnel Bench in the 1930s.



Figure 22: Placing siphon pipe in trench, probably Caldwell Siphon, 1925.



Figure 23: Laying pipe, Caldwell Siphon 1925.



Figure 24: Lowering pipe segments into trench, Caldwell Siphon 1925.



Figure 25: Twin Oaks siphon in trench.



Figure 26: Above-ground portion of Twin Oaks Siphon.



Figure 27: The original Pechstein Reservoir circa 1970.



Figure 28: Covering the Flume, 1955.



Figure 29: Covering flume cover with hand-placed mortar 1955.



Figure 30: Reconstructing Pechstein Reservoir 1977.



Figure 31: In the 1980s a second flume cover with steel rebar reinforcement was placed on top of the first.



Figure 32: Inserting HDPE pipe into the MW bench, 2010. A portion of the flume was demolished to establish an insertion point.



Figure 33: Repaired section of MW Bench after completion of the HDPE pipe insertion project.

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Cash Disbursement Report

Payment Dates 06/08/2017 - 06/21/2017

Payment Number	Payment Date	Vendor	Description	Amount
56341-56345	06/14/2017	Refund Checks 56341-56345	Customer Refunds	703.23
56346	06/14/2017	Refund Check 56346	Customer Refund	1,347.93
56347	06/14/2017	ABABA Bolt	Anchor Bolts	81.89
56348	06/14/2017	ACWA/JPIA	Medical & Dental Insurance 07/2017 - Cobra	69.09
	06/14/2017		Medical & Dental Insurance 07/2017 - Cobra	69.09
	06/14/2017		Medical & Dental Insurance 07/2017 - Cobra	600.39
	06/14/2017		Medical & Dental Insurance 07/2017 - Cobra	69.09
	06/14/2017		Medical & Dental Insurance 07/2017 - Cobra	69.09
	06/14/2017		Medical & Dental Insurance 07/2017 - Employees	160,751.97
	06/14/2017		Medical & Dental Insurance 07/2017 - Retirees	34,691.87
	06/14/2017		Medical & Dental Insurance 07/2017 - P Sanchez	1,731.63
	06/14/2017		Medical & Dental Insurance 07/2017 - R Vasquez	1,462.29
	06/14/2017		Medical & Dental Insurance 07/2017 - M Miller	1,731.63
	06/14/2017		Medical & Dental Insurance 07/2017 - J MacKenzie	1,731.63
	06/14/2017		Medical & Dental Insurance 07/2017 - P Dorey	1,462.29
56349	06/14/2017	Airgas USA LLC	Oxygen & Acetylene Fuel	322.46
56350	06/14/2017	Asbury Environmental Services	Used Oil Filters Pickup - Shop	55.00
	06/14/2017		Used Oil Pickup - Shop	120.00
56351	06/14/2017	Bekker's Catering	Employee Event 06/20/2017	1,153.68
56352	06/14/2017	Big Drip Plumbing	Meter Tie Backs	4,500.00
56353	06/14/2017	Boot World Inc	Footwear Program (2)	316.10
56354	06/14/2017	California Department of Justice	Pre-employment Fingerprints	49.00
56355	06/14/2017	Cal-Mesa Steel Supply Inc	Aluminum Blades (4)	284.46
56356	06/14/2017	Capital One Commercial	Warehouse Supplies	2,372.22
	06/14/2017		Warehouse Supplies	505.89
	06/14/2017		Refreshments for Mtg 5/2/17	68.16
56357	06/14/2017	City of Vista	ROW Permits Fees 01/01/17-03/31/17	6,030.00
56358	06/14/2017	Clinical Lab of San Bernardino Inc	Water Quality Testing	920.00
56359	06/14/2017	Coast Equipment Rentals	Bulldozer Rental	2,480.00
	06/14/2017		Concrete	139.64
56360	06/14/2017	Council of Water Utilities	Meeting 06/20/2017 - P Dorey	25.00
	06/14/2017		Meeting 06/20/2017 - R Vasquez	25.00

Payment Number	Payment Date	Vendor	Description	Amount
	06/14/2017		Meeting 06/20/2017 - B Hodgkiss	25.00
56361	06/14/2017	Diamond Environmental Services	Portable & Stationary Restroom Service	286.42
56362	06/14/2017	Direct Energy	Electric 05/2017 - VID	463.71
	06/14/2017		Electric 05/2017 - Henshaw Buildings & Grounds	152.56
	06/14/2017		Electric 05/2017 - Henshaw Well Field	738.43
	06/14/2017		Electric 05/2017 - T&D / Cathodic Protection	24.19
	06/14/2017		Electric 05/2017 - Reservoirs	21.82
	06/14/2017		Electric 05/2017 - Pump Stations	209.26
	06/14/2017		Electric 05/2017 - Treatment Plants	20.24
56363	06/14/2017	EDCO Waste & Recycling Services Inc	Trash/Recycle Removal 05/2017	206.46
56364	06/14/2017	EH Wachs Company	Antifreeze Tank - Truck 1	252.22
56365	06/14/2017	El Camino Rental	Concrete	162.38
56366	06/14/2017	Eurofins Eaton Analytical Inc	DI Suitability Analysis	397.00
56367	06/14/2017	Ferguson Waterworks	Claval Repair Parts	743.13
56368	06/14/2017	Fountain Car Wash	Car Wash Tokens (600)	540.00
56369	06/14/2017	Glennie's Office Products Inc	Office Supplies	2,036.55
56370	06/14/2017	Grainger	Pump Strainers, Pipe Strap	168.98
56371	06/14/2017	Hach Company	Chlorine Analyzer	49.94
56372	06/14/2017	Hawthorne Machinery Co	Window Glass & Seal	236.15
	06/14/2017		Tilt Steering Shock Kit - B23	54.77
56373	06/14/2017	HD Supply Waterworks	8" Pipe Fittings	2,537.45
56374	06/14/2017	HDR	2016 Water Master Plan	18,445.00
56375	06/14/2017	HUB Construction Specialties	Wattles (6)	368.51
56376	06/14/2017	Infrastructure Engineering Corporation	Shea Flume Relocation - Inspection 04/2017	20,292.00
56377	06/14/2017	Interstate Battery of San Diego Inc	Battery - AZ1	105.10
56378	06/14/2017	Joe's Paving	Asphalt Repair/Slurry Seal - Warmlands	3,202.83
	06/14/2017		Paving - Plumosa Avenue	42,619.50
56379	06/14/2017	Kimball Midwest	Hole Saws, Penetrate & Wax Lube Spray - Shop	154.75
56380	06/14/2017	Liebert Cassidy Whitmore	Employment Relations Consortium Membership 07/17-06/18	3,555.00
56381	06/14/2017	Lightning Messenger Express	Messenger Service 05/19/17	48.00
56382	06/14/2017	Mallory Safety and Supply, LLC	Sunscreen (12)	149.39
56383	06/14/2017	Medical Eye Services	Vision Insurance 07/2017 - Cobra	14.24
	06/14/2017		Vision Insurance 07/2017 - Cobra	8.78
	06/14/2017		Vision Insurance 07/2017 - Cobra	14.24
	06/14/2017		Vision Insurance 07/2017 - Employees	1,634.14
	06/14/2017		Vision Insurance 07/2017 - J MacKenzie	14.24
	06/14/2017		Vision Insurance 07/2017 - P Dorey	14.24

Payment Number	Payment Date	Vendor	Description	Amount
	06/14/2017		Vision Insurance 07/2017 - M Miller	14.24
	06/14/2017		Vision Insurance 07/2017 - R Vazquez	14.24
	06/14/2017		Vision Insurance 07/2017 - P Sanchez	14.24
56384	06/14/2017	Moody's	Dump Fees (3)	600.00
	06/14/2017		Dump Fees (2)	400.00
	06/14/2017		Dump Fees (2)	400.00
56385	06/14/2017	NAPA Auto Parts	Washer Fluid, Cleaner, Gloves, Filters	172.29
56386	06/14/2017	North County Auto Parts	Oil, Fuel Filter, Alternator Core	(163.74)
	06/14/2017		Brake Hydro Boost - Truck 66	499.00
	06/14/2017		D.E.F. Fluid - Truck 3	22.84
	06/14/2017		Filters, Brake Cleaner, Wiper Blades	106.19
	06/14/2017		Air Hammer Retainers	12.08
	06/14/2017		Brake Rotors (2) - Truck 20	(181.77)
56387	06/14/2017	Olivenhain MWD	North SD County Recycle Project 8/2/16-2/28/17	269.20
56388	06/14/2017	Pacific Pipeline Supply	Pipe Fitting Restraints (6)	379.89
	06/14/2017		PVC Couplings, Ell	25.75
56389	06/14/2017	Peters Paving & Grading, Inc	Road Repair on Alessandro Trail & Vereda Barranca	76,478.00
56390	06/14/2017	Ramona Disposal Service	Trash Service 05/2017	153.43
56391	06/14/2017	Richard Brady & Associates, Inc	HP Reservoir Rehab - Construction Mgmt 04/2017	43,326.39
	06/14/2017		HP Reservoir Rehab - Construction 04/2017	212,349.07
56392	06/14/2017	Rick Post Welding & Wet Tapping	2"Taps on Ductile Iron Pipe	900.00
56393	06/14/2017	S & J Supply Company Inc	Zinc Anode bag 30lb (5)	660.32
	06/14/2017		Flange 4" SOW (2)	38.97
	06/14/2017		Service Saddle 6x1 C900 PVC (5)	621.30
	06/14/2017		Pipe 6" PVC DR-14 C900 (200)	1,039.20
	06/14/2017		Wire 10 Copper (500)	113.66
56394	06/14/2017	San Diego Gas & Electric	Electric 05/2017 - T&D	72.36
	06/14/2017		Electric 05/2017 - Reservoirs	42.99
56395	06/14/2017		Gas 05/2017	346.35
	06/14/2017		Electrical Transmission 05/2017	2,116.77
56396	06/14/2017	SiteOne Landscape Supply, LLC	Material for Shorting PVC Line	38.03
	06/14/2017		Adapter	6.62
56397	06/14/2017	Southern Counties Lubricants, LLC	Fuel 05/16/17-05/30/17	5,652.75
56398	06/14/2017	Tegriscap Inc	Landscaping Maintenance Service 05/2017	1,840.00
	06/14/2017		Landscape Maintenance & Planting	1,384.32
56399	06/14/2017	Harrison Power Equipment	Carburetor & Gasket - G28	224.09
56400	06/14/2017	Midas Service Experts	Tire & Mounting - Truck 33	167.62

Payment Number	Payment Date	Vendor	Description	Amount
56401	06/14/2017	The San Diego Union-Tribune LLC	Legal Notice - Ad for Annual Paving	309.09
56402	06/14/2017	UniFirst Corporation	Uniform Service	349.74
56403	06/14/2017	VG Donuts & Bakery Inc	Board Meeting 06/07/17	66.15
56404	06/14/2017	Volt	Temporary Service PE 05/21/17	437.52
56405	06/14/2017	Wellworth Technologies Inc	Repatee Voicemail System Upgrade	975.00
	06/14/2017		Repatee Voicemail System Upgrade	10,393.29
56406	06/14/2017	WIN-911 Software	SCADA Alarm Software Maintenance & Support	495.00
56407-56409	06/21/2017	Refund Checks 56407-56409	Customer Refunds	260.19
56410-56411	06/21/2017	Refund Checks 56410-56411	Customer Refunds	3,147.28
56412	06/21/2017	Active Auto Collision	Patch Rust Spots & Paint Water Tank - Truck 26	1,954.88
56413	06/21/2017	Boot World Inc	Footwear Program	19.40
56414	06/21/2017	Canon Solutions America, Inc	Copier Maintenance (2)	170.83
56415	06/21/2017	CDW Government Inc	HP Laserjet Pro M402n	172.89
56416	06/21/2017	Cecilia's Safety Service Inc	Traffic Control - San Clemente Ave	1,540.00
	06/21/2017		Traffic Control - Vista Mountain Dr	1,360.00
	06/21/2017		Traffic Control - Mar Vista Dr	680.00
	06/21/2017		Traffic Control - Palm Hill Drive	467.50
	06/21/2017		Traffic Control - Osborne St	1,105.00
	06/21/2017		Traffic Control - Joannie Way	297.50
56417	06/21/2017	Digital Deployment, Inc	Website Hosting, Support & Maintenance	300.00
56418	06/21/2017	Donald Gordon	Computer Loan Program 06/2017	1,351.36
56419	06/21/2017	El Camino Rental	Concrete	162.38
56420	06/21/2017	Electrical Sales Inc	Split Connectors (50)	147.76
	06/21/2017		Light Ballasts & Switches	274.88
56421	06/21/2017	Employee Relations, Inc	Pre-employment Reports	72.85
56422	06/21/2017	FedEx	Express Shipping	47.67
56423	06/21/2017	Ferguson Waterworks	Tubing 1" Copper Soft	4,533.52
56424	06/21/2017	Fredricks Electric Inc	Electrical Work - Interior Lighting	770.00
56425	06/21/2017	Free Builders Supply	Sona Tubes (2)	19.40
56426	06/21/2017	Gallagher Benefits Services, Inc	Job Evaluation & Report- Wtr Resources Specialist	500.00
56427	06/21/2017	Geib Lumber Company	Lumber - Sarver Lane	53.82
56428	06/21/2017	GLC-(CA) Vista LLC	Solar Energy 05/2017	6,262.34
56429	06/21/2017	Glennie's Office Products Inc	Office Supplies	25.96
	06/21/2017		Office Supplies	44.98
	06/21/2017		Office Supplies	9.69
56430	06/21/2017	HD Supply Waterworks	Restrainer (4)	174.10
	06/21/2017		Restrainers (16)	696.44

Payment Number	Payment Date	Vendor	Description	Amount
	06/21/2017		Lube (48)	284.46
	06/21/2017		Ells (2)	(132.57)
56431	06/21/2017	HELIX Environmental Planning, Inc	Vista Flume - Historic Documentation 05/2017	16,085.37
56432	06/21/2017	Horton Knox Carter & Foote LLP	Legal 05/2017	29,481.00
56433	06/21/2017	Iron Mountain Records Management	Offsite Data Storage	134.66
56434	06/21/2017	Jo MacKenzie	ACWA State Legislative Committee Meeting 6/9/17	626.83
56435	06/21/2017	Joe's Paving	Road Repair - E Vista Way & Gopher Canyon	3,386.55
56436	06/21/2017	KEH & Associates, Inc	Pipeline Replacement Design	44,450.48
56437	06/21/2017	Ken Grody Ford Carlsbad	Turbo Insulator and Hardware - Truck 49	130.51
56438	06/21/2017	Lawnmowers Plus Inc	Weed-Whip Parts & Line	234.66
	06/21/2017		Weed Whip Repair Parts	43.57
56439	06/21/2017	Major League Pest/Gemini Pest Control	Bee Removal (10)	850.00
56440	06/21/2017	Mallory Safety and Supply, LLC	Sunscreen (24)	272.79
56441	06/21/2017	MRC, Smart Technology Solutions	Managed Print Services	1,014.09
56442	06/21/2017	Mutual of Omaha	LTD/STD/Life Insurance 07/2017	6,369.86
56443	06/21/2017	North County Pool Center Inc	Chlorine for Reservoirs (8), Deposit	44.91
	06/21/2017		Chlorine for Reservoirs (12)	49.36
	06/21/2017		Chlorine for Reservoirs (12), Deposit	49.86
	06/21/2017		Chlorine for Reservoirs (8)	32.91
	06/21/2017		Chlorine for Reservoirs (8)	32.91
	06/21/2017		Chlorine for Reservoirs (12), Deposit	55.36
	06/21/2017		Deposits Refund	(18.00)
	06/21/2017		Chlorine for Reservoirs (4)	16.45
56444	06/21/2017	Pacific Pipeline Supply	PVC 45 Degree Ells (3)	27.64
56445	06/21/2017	Pacific Safety Center	Confined Space Awareness Training (2)	300.00
56446	06/21/2017	Ramco Petroleum	Fuel 05/2017	1,531.79
56447	06/21/2017	San Diego Chapter-CSDA	Membership 07/2017 - 06/2018	150.00
56448	06/21/2017	Santa Fe Car Wash	Car Washes (25)	200.00
56449	06/21/2017	SiteOne Landscape Supply, LLC	Socket Coupling, Reducer Bushing, Wet R Dry	176.37
56450	06/21/2017	Underground Service Alert of Southern California	DigAlert New Tickets 05/2017 (317)	475.50
56451	06/21/2017	UniFirst Corporation	Uniform Service	345.62
56452	06/21/2017	Union Bank	Backhoe Operator Training (4)	600.00
	06/21/2017		ARC Flash Electrical Safety Training	(1,100.00)
	06/21/2017		Advance Water Quality Class	(150.00)
	06/21/2017		ACWA Spring Conference - R Whitmann	686.31
	06/21/2017		CSDA Fiscal Committee Meeting	172.96
	06/21/2017		LiveCycle Designer Training	795.00

Payment Number	Payment Date	Vendor	Description	Amount
	06/21/2017		Special District Leadership Conference - P Sanchez	229.96
	06/21/2017		ACWA Spring Conference - R Vasquez	685.23
	06/21/2017		ACWA Spring Conference - P Dorey	1,143.85
	06/21/2017		ACWA Spring Conference - P Sanchez	686.31
	06/21/2017		Santa Ana River Watershed Conference - R Vasquez	177.75
	06/21/2017		Groundwater Assoc San Diego Branch Mtg - P Dorey	50.00
	06/21/2017		ACWA Spring Conference - E Boone	1,143.85
	06/21/2017		ACWA Spring Conference - B Hodgkiss	686.31
56453	06/21/2017	Vinje & Middleton Engineering Inc	Compaction Test	426.25
56454	06/21/2017	Vortex Industries Inc	Roll Gates Preventive Maintenance	271.95
	06/21/2017		Roll up Door Repairs	1,287.27
56455	06/21/2017	WM LampTracker Inc	Batteries - Universal Waste Disposal	139.00
Grand Total:				830,346.38



STAFF REPORT

Agenda Item: 7

Board Meeting Date: July 5, 2017
Prepared By: Brett Hodgkiss, Don Smith, and Brian Smith
Approved By: Eldon Boone

SUBJECT: DIVISION REPORTS

RECOMMENDATION: Note and file informational report.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: Previous month's and anticipated activities are reported by each division.

FIELD SERVICES AND WATER RESOURCES DIVISION

**VID Water Production
May 2017**

Description	Current Month Production		Average Production of Last 12 Months		Total, Fiscal Year-to-Date
	(mgd)	(af)	(mgd)	(af)	(af)
VID's EVWTP Water Production					
Local Water	0.00	0.00	1.12	104.92	858.40
SDCWA Raw Water	0.00	0.00	6.26	583.33	6,238.50
Subtotal (EVWTP Water Production)	0.00	0.00	7.38	688.25	7,096.90
Oceanside Contract Water	0.00	0.00	1.05	97.85	1,167.40
SDCWA Treated Water	16.19	1,540.30	6.88	645.91	7,299.60
TOTAL WATER PRODUCTION	16.19	1,540.30	15.31	1,432.01	15,563.90

Lake Henshaw and Warner Ranch Wellfield statistics are summarized as follows:

Lake Henshaw

Storage as of June 21, 2017: 12,221 af (24% of 51,774 af capacity)
 Current releases: 15 cfs weekdays; 20 cfs weekends
 Change in storage for month of May: 1,498 af (loss)
 Total releases for month of May: 1,127 af
 Hydrologic year-to-date rain total: 34.45 inches (June 21, 2017)
 Percent of yearly average rain: 143% (30-year average: 24.09 inches)
 Percent of year-to-date average rain: 143% (30-year average through June: 24.09 in.)

Warner Ranch Wellfield

Number of wells running in May: 1*
 Total production for month of May: 12 af*
 Average depth to water table (May): 118 ft (see attached historical water table chart)

* Wellfield in maintenance/cattle water mode

Electrical Energy Use at VID Headquarters

May 2017

Description	Current Month Production	Average of Last 12 Months	Total, Fiscal Year-to-Date
	(kWh)	(kWh)	(kWh)
Solar Production (\$0.16 per kWh)	38,849	33,744	361,002
Power purchased from Direct Energy (\$0.05 per kWh)	8,120	14,651	169,909
TOTAL ELECTRICAL ENERGY USE	46,969	48,395	530,911

June

- Conducted 2017 Sanitary Survey of District facilities with State Water Resources Control Board staff.
- Continued main line replacement of 6” steel pipe on Lobelia Drive and Primrose Avenue – install 4,300’ of various sizes PVC pipe, 49 services and 9 hydrants.
- Completed main line replacement of 6” Nipponite pipe on North Citrus Avenue – installed 200” of 6” PVC pipe.
- Continued coordinating implementation of Conveyance Agreement with Settlement Parties, Metropolitan Water District of Southern California (Metropolitan) and the San Diego County Water Authority (Water Authority).
- Identified Forman Deeds that will be affected by the Implementing Agreement.

July

- Continue main line replacement of 6” steel pipe on Lobelia Drive and Primrose Avenue.
- Start main line replacement of various sizes Nipponite and steel pipe on Copper Avenue/Delta Lane – install 3,150’ of various sizes PVC pipe, 36 services and 2 hydrants.
- Continue coordinating implementation of Conveyance Agreement with Settlement Parties, Metropolitan and the Water Authority. Meet with staff representing Settlement Parties and the Water Authority to discuss operational and accounting issues related to the Conveyance Agreement.

ATTACHMENTS: Lake Henshaw Resort, Inc., Activity Reports – April 30, 2017
 VID's Warner Wellfield - Water Table Depth vs. Monthly Wellfield Production

ADMINISTRATION DIVISION

June

- The District’s total water production for May 2017 was 1,540 acre-feet (AF) compared to 1,796 AF in 2013, representing a 14 percent decrease.
- Issued a news release announcing the availability of the Consumer Confidence Report online beginning July 1, 2017.
- Participated in City of Vista Summer Fun Fest event.
- Participated in California Special Districts Association Fiscal Committee teleconference meeting.
- Began recruitment for Senior Equipment Mechanic position.
- Continued recruitment for Water Resources Specialist position.
- Hosted Water Utility Safety Managers Association meeting.
- Hosted Association of California Water Agencies Joint Powers Insurance Authority Regional Human Resources training.
- Coordinated training on fall protection for field personnel. This training was open to other water agencies.
- Coordinated Employee Lake Henshaw Weekend Event
- Coordinated Summer Kickoff Employee Breakfast Event

July

- Continue recruitments for Water Resources Specialist and Senior Equipment Mechanic positions.
- Coordinate confined space rescue class for field personnel.
- Host two Liebert Cassidy Whitmore training sessions related to labor negotiations.

ENGINEERING DIVISION

June

- Mainline Replacements – Continued working on design of main replacement projects.
- The District has replaced approximately 6.3 miles of Nipponite pipe since 2002. Of the 10.6 miles of Nipponite pipe remaining in the system, replacement of 4.1 miles is currently in design and 0.1 mile is in construction.
- Beehive Bench & Siphon – Infrastructure Engineering Corporation completed rehabilitation alternatives study.
- Flume Relocation (Hidden Valley Estates) – Cass Construction continued on flume relocation work.
- City of Vista Projects – (Paseo) South Santa Fe Streetscape Improvements: Phase II along South Santa Fe Avenue from Ocean View Drive to Terrace Drive (CIP #8289); Phase III along South Santa Fe Avenue from Terrace Drive to Civic Center Drive (CIP #8291). Completed coordination of design of water system improvements with City street improvements. Completed preparation of contract documents and construction contract with City.
- Master Plan Update – HDR continued on master planning efforts.
- HP Reservoir Rehabilitation – Richard Brady and Associates (Brady) completed tank footing extension and seismic cable connection work. See cost estimate/bid summary table attached.

July

- Mainline Replacement Projects in design (current projects): Lobelia Dr., Primrose Ave.*, Pvt. Rd. between Taylor St. and Kevin Dr.*, Barbara Drive, Lita Lane, Pala Vista Dr., Copper Dr.*, Delta Ln.*, Hackamore Rd., San Luis Rey Ave. *, Cathan Lane, Buena Village Dr., York Dr. (Pvt Rd.), Lonsdale Ln.*, Rosario Ln.*, Catalina Ave.*, Quails Trail*, Peach Grove Lane, Via Christina, Robinhood Rd., Lower Ln., Easy St., Vista Grande Dr.*, Green Hills Way, Elevado Road.
- Mainline Replacement Projects in planning (future projects): Lita Lane, Camino Ciego*, Mar Vista Dr., Miramar Dr., Marine View Dr., E. Vista Way, Mason Rd., Lado De Loma, Eddy Dr., Camino Patricia, Camino Corto, Nordahl Rd.*, HN Line- Gopher Canyon to Fairview Dr., N. Citrus Ave., Nevada Ave., Lemon Ave., Buena Creek Rd.*, Via Christina, S. Santa Fe Pipeline, Rancho Vista Rd., Bandini Place, McGavran Dr., Ora Avo Dr., Shale Rock, San Clemente Ave.*, San Clemente Way*, La Mirada, Crescent Dr., Descanso Ave., Pump Station No. 10 By-Pass – Blue Bird Canyon.
- Mainline Replacements (consultant projects) – KEH and Associates to continue with design for: Osborne St.*, North Santa Fe Ave.*, Taylor St.*, Goodwin Dr.*, Rush Ave.*, Portia Ave.*.
- City of Vista Projects – (Paseo) South Santa Fe Streetscape Improvements: Phase II along South Santa Fe Avenue from Ocean View Drive to Terrace Drive (CIP #8289); Phase III along South Santa Fe Avenue from Terrace Drive to Civic Center Drive (CIP #8291. The City anticipates awarding their construction contract in the summer and beginning construction in the fall.
- Flume Relocation (Hidden Valley Estates) – Cass Construction to connect new flume section, allowing flume flows to commence.
- Beehive Bench & Siphon – Review rehabilitation alternatives study prepared by Infrastructure Engineering Corporation.
- Master Plan Update – HDR to continue with master planning efforts.
- HP Reservoir Rehabilitation – Brady to begin exterior wall power wash, pre-stressed wire wrap and shotcrete work.

*Nipponite pipe

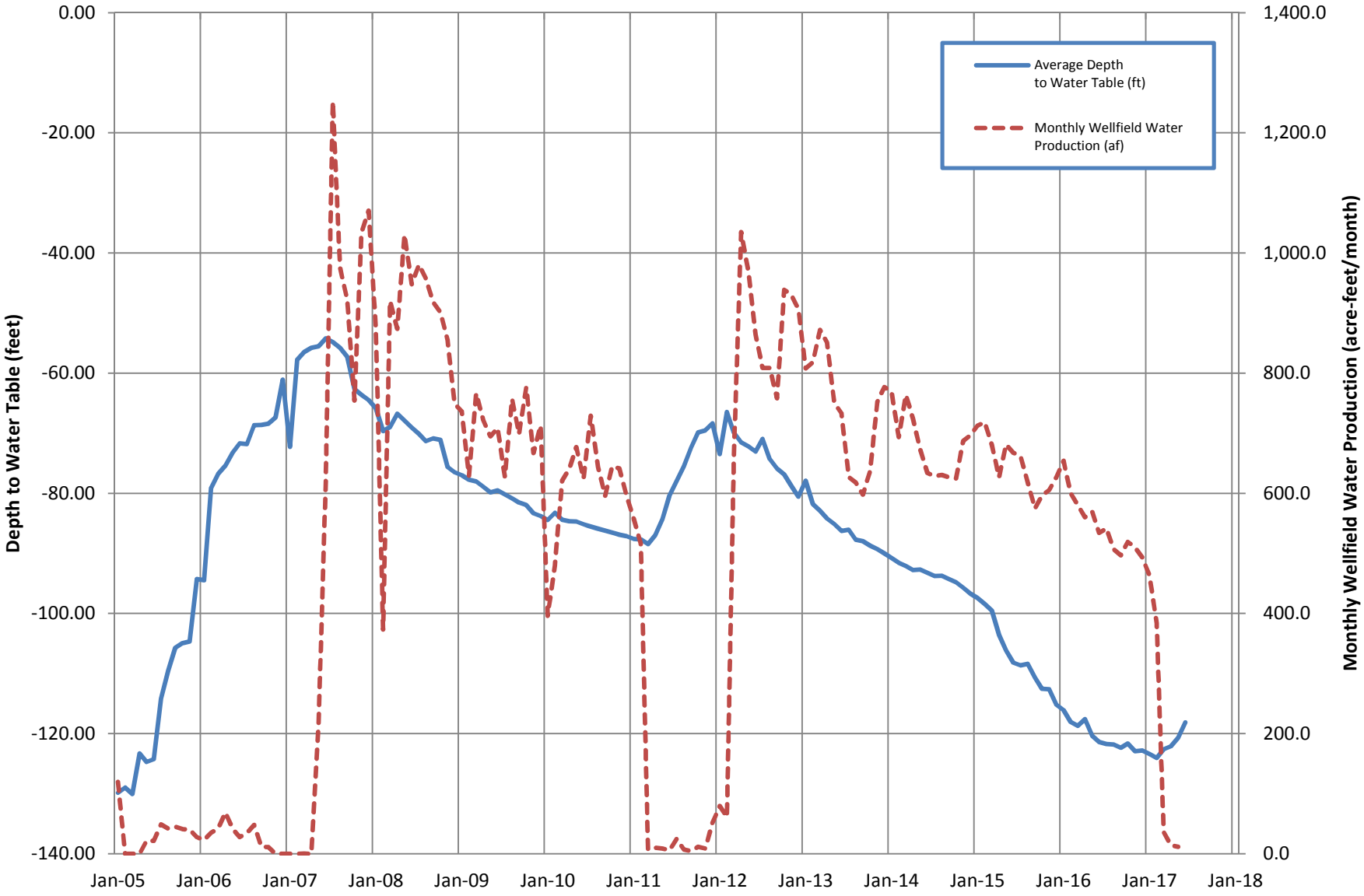


LAKE HENSHAW RESORT, INC.
ACTIVITY REPORT
AS OF APRIL 30, 2017

	2016 Mar	2016 Apr	2016 May	2016 Jun	2016 Jul	2016 Aug	2016 Sep	2016 Oct	2016 Nov	2016 Dec	2017 Jan	2017 Feb	2017 Mar	2017 Apr	12 MO AVG
Fishing Permits	591	699	650	772	835	617	573	356	285	80	109	83	344	761	455
Boat Launches	14	26	32	62	24	3	2	5	2	0	0	1	3	22	13
Motor Boats (full day rental)	27	52	55	59	56	49	24	13	1	13	14	0	7	40	28
Motor Boats (half day rental)	3	8	3	12	9	8	5	9	2	0	0	0	0	14	5
Campground/Head Count	153	194	2,124	659	1,642	1,159	1,294	749	205	115	77	54	284	936	775
Campground/Cars, Trucks, etc.	128	284	797	283	848	386	406	347	137	17	12	15	214	263	310
Campground/Recreational Vehicles	21	15	16	6	13	6	9	10	19	6	0	3	6	37	11
Mobile Home/Spaces	61	62	62	62	62	62	62	63	64	65	65	66	68	63	64
M.H.P. Daily (Visitors/Head Count)	12	23	22	53	6	12	18	0	0	0	0	0	0	0	9
M.H.P. (Residents/Head Count)	84	86	84	84	84	84	84	89	96	98	98	99	99	97	91
Storage	3	1	4	4	4	4	4	2	3	6	4	7	6	3	4
Cabins	231	166	174	127	109	191	238	211	248	167	109	112	169	207	172
Hunters	0	0	0	0	0	0	0	0	0	131	78	0	0	0	17

VID's Warner Wellfield

Water Table Depth vs. Monthly Wellfield Production



HP RESERVOIR CONSTRUCTION COST ESTIMATE AND BID SUMMARY

ITEM	ESTIMATE	ACTUAL BID / QUOTE	UNDER / (OVER)
Tank Rehab			
Demo existing gunite and wire, abrasive blast wall	\$150,000	\$150,000	\$0
Extend wall footing	\$310,000	\$220,215	\$89,785
Install prestressing/seismic strand and shotcrete	\$845,300	\$880,000	(\$34,700)
Floor/wall joint mastic, backer-rod/Sikaflex, floor crack epoxy	\$160,000	\$73,750	\$86,250
Abatement and Demo			
Remove floor/wall mastic patch, encapsulate lead-paint	\$7,500	\$3,500	\$4,000
Disposal of gunite and wire	\$75,000	\$55,000	\$20,000
Demo and dispose existing roof/columns and tank footing, cut and cap roof columns	\$285,000	\$295,100	(\$10,100)
Aluminum Roof	\$650,000	\$497,195	\$152,805
Miscellaneous Items			
Special inspection services	\$12,000	\$26,416	(\$14,416)
Bonds	\$53,000	\$35,848	\$17,152
Interior SS staircase / exterior galv. staircase	\$115,000	\$229,897	(\$114,897)
Exterior painting of tank	\$30,000	\$32,452	(\$2,452)
Site office and sanitary	\$8,000	\$4,426	\$3,574
Site Restoration and Yard Piping Improvements			
Replace perimeter fence 750 lf and entry gate	\$28,400		
Remove and replace perimeter asphalt 12,000 est. sf	\$100,800	\$43,750	\$57,050
Yard piping improvements	\$170,000	\$106,325	\$63,675
Total (Construction Budget)	\$3,000,000	\$2,653,874	\$317,726



STAFF REPORT

Agenda Item: 8

Board Meeting Date: July 5, 2017
Prepared By: Frank Wolinski
Reviewed By: Brett Hodgkiss
Approved By: Eldon Boone

SUBJECT: ANNUAL CONTRACT FOR PAVING SERVICES

RECOMMENDATION: Authorize the General Manager to enter into an agreement with Joe's Paving, Inc. to provide paving services on District projects requiring less than 8,000 square feet of paving for fiscal year 2018 in an amount not to exceed \$600,000.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: This contract is proposed for an amount not to exceed \$600,000.

SUMMARY: Annually, the District generates approximately 20,000 square feet of patch paving and requires pavement restoration services for over two miles of trench line to support the main line replacement program. Recent efforts to increase main line production have increased the need for additional paving services. Expanding the scope of the annual contract for paving services from 1,500 square feet to 8,000 square feet will increase operational efficiencies, reduce liability associated with temporary paving and allow the District to be more responsive in the repair of public and private roadways.

DETAILED REPORT: Historically, the District has bid all paving projects over 350 square feet and captured all paving under this amount in an annual paving contract. In 2015, the District expanded the scope of the annual paving contract to include paving up to 1,500 square feet in an effort to provide timelier road repairs and reduce staff time associated with bid processing. As recent efforts to accelerate the District's main line replacement program have increased the need for additional paving services, expanding the scope of the annual paving contract will further increase operational efficiencies, including reducing the amount of time crews must maintain temporary paving, and allow pavement restoration on larger main line projects to be completed expediently, minimizing the impact on the surrounding community.

In May 2017, the District advertised and solicited bids from fifteen (15) contractors to perform asphalt repair services for patch paving and main line replacement projects. Contractors were required to bid on paving in incremental amounts up to 8,000 square feet as well as provide pricing for seal coating, striping, signage, curb and berm, and other related services. The District received three responsive bids from Anthony's Paving, Joe's Paving, Inc. and LC Paving. Joe's Paving, Inc. responded with the lowest overall bid based on price per square foot for patch paving and trench restoration services. A fourth bid was received from Kirk Paving, Inc.; however, their submittal was deemed non-responsive because it did not contain two references as required in the request for bids.

During fiscal year 2017, Joe's Paving, Inc. successfully performed final paving for District excavations under 1,500 square feet under an annual contract for patch paving services. Additionally, Joe's Paving, Inc. was awarded contracts as the low bidder for paving restoration on eight (8) of thirteen (13) main line replacement projects during fiscal year 2017.

The Vista Irrigation District boundary includes the City of Vista, and portions of the cities of San Marcos, Escondido, Oceanside, and unincorporated areas of San Diego County. The contractor will be expected to comply with all paving standards as established under the appropriate governing agency's requirements.

ATTACHMENT: Bid Summary

BID SUMMARY
Annual Paving Contract

Asphalt Base Paving (Patch Paving)					
Item		Anthony's	LC Paving	Joe's Paving	
1	1 - 500 Square Feet	\$10.99	\$10.00	\$4.90	Per Sq. Ft.
2	501 - 1,000 Square Feet	\$10.65	\$7.60	\$4.00	Per Sq. Ft.
3	1,001 - 2,000 Square Feet	\$9.99	\$7.10	\$3.80	Per Sq. Ft.
4	Additional Asphalt replacement 1" depth	\$2.00	\$3.41	\$0.75	Per Sq. Ft.
Grind and Cap (Patch Paving)					
Item		Anthony's	LC Paving	Joe's Paving	
5	2 - 1,000 Square Feet	\$7.25	\$5.25	\$3.65	Per Sq. Ft.
6	1,001 - 2,500 Square Feet	\$7.00	\$3.62	\$3.25	Per Sq. Ft.
7	2,501 - 4,000 Square Feet	\$6.00	\$2.60	\$2.60	Per Sq. Ft.
Mobilization Fee					
Item		Anthony's	LC Paving	Joe's Paving	
8	1 - 1,000 Square Feet	\$1.00	\$0.25	\$0.60	Per Sq. Ft.
9	1,001 - 2,000 Square Feet	\$2.00	\$0.25	\$0.40	Per Sq. Ft.
Asphalt Base Paving (Main Line Replacement)					
Item		Anthony's	LC Paving	Joe's Paving	
10	2,001 - 4,000 Square Feet	\$8.50	\$7.00	\$5.50	Per Sq. Ft.
11	4,001 - 8,000 Square Feet	\$8.00	\$5.68	\$4.50	Per Sq. Ft.
Grind and Cap (Mainline Replacement)					
Item		Anthony's	LC Paving	Joe's Paving	
12	2,001 - 4,000 Square Feet	\$6.00	\$4.61	\$1.80	Per Sq. Ft.
13	4,001 - 8,000 Square Feet	\$5.50	\$4.43	\$1.50	Per Sq. Ft.
Remove and Replace (Main Line Replacement)					
Item		Anthony's	LC Paving	Joe's Paving	
14	1 - 500 Square Feet	\$10.99	\$8.00	\$4.90	Per Sq. Ft.
15	501 - 1,000 Square Feet	\$10.65	\$7.60	\$4.00	Per Sq. Ft.
16	1,001 - 2,000 Square Feet	\$9.99	\$7.10	\$3.80	Per Sq. Ft.
Additional Items (Main Line Replacement)					
Item		Anthony's	LC Paving	Joe's Paving	
17	Flag-person (using Contractor owned materials and equipment)	\$85.00	\$55.00	\$65.00	Per Hour
18	Project Coordinator (Job Walk)	\$125.00	\$55.00	\$50.00	Per Hour
Seal Coat					
Item		Anthony's	LC Paving	Joe's Paving	
19	1 - 500 Square Feet	\$1.00	\$8.50	\$11.00	Per Sq. Ft.
20	501 - 1,000 Square Feet	\$0.50	\$8.50	\$5.50	Per Sq. Ft.
21	1,001 - 2,000 Square Feet	\$0.50	\$4.50	\$2.75	Per Sq. Ft.
Berm and Curb					
Item		Anthony's	LC Paving	Joe's Paving	
22	3" - 6" Rolled Asphalt Berm	\$10.00	\$5.00	\$4.50	Per Ln. Ft.
23	6" Machined Asphalt Curb	\$20.00	\$12.00	\$8.90	Per Ln. Ft.

BID SUMMARY
Annual Paving Contract

Striping					
Item		Anthony's	LC Paving	Joe's Paving	
24	Painted Striping (Crosswalk, stop bar, bike lane, fog line,	\$12.50	\$5.00	\$0.75	Per Ln. Ft.
25	Painted Lane Striping (Center divide, double line etc.)	\$6.50	\$0.85	\$1.00	Per Ln. Ft.
26	Thermoplastic Striping (Crosswalk, stop bar, bike, fog line,	\$18.00	\$12.00	\$5.00	Per Ln. Ft.
27	Thermoplastic Lane Striping (Center divide, double line	\$14.00	\$3.00	\$5.00	Per Ln. Ft.
28	Pavement Markers/reflectors (Fire, center road, etc.)	\$3.50	\$7.00	\$5.00	Each
Signage					
Item		Anthony's	LC Paving	Joe's Paving	
29	Painted Intersection Marking (Legends, arrows, etc.)	\$300.00	\$50.00	\$60.00	Each
30	Thermoplastic Intersection Marking (Legends, arrows,	\$300.00	\$200.00	\$500.00	Each
Traffic Loops					
Item		Anthony's	LC Paving	Joe's Paving	
31	Traffic Control Loop	\$1,800.00	\$1,675.00	\$1,050.00	Each
32	Cyclist Control Loop	\$1,800.00	\$1,675.00	\$900.00	Each
Additional Services					
Item		Anthony's	LC Paving	Joe's Paving	
33	Asphalt compaction test	\$600.00	\$200.00	\$500.00	Each



STAFF REPORT

Agenda Item: 9

Board Meeting Date:	July 5, 2017
Prepared By:	Lisa Soto
Reviewed By:	Brett Hodgkiss
Approved By:	Eldon Boone

SUBJECT: DISTRICT COMMITTEES AND AD HOC COMMITTEES

RECOMMENDATION: Consider terminating the Indian Settlement ad hoc committee and reclassifying the Groundwater ad hoc committee to be a Standing Committee of the Board.

PRIOR BOARD ACTION: At its January 4, 2017 meeting, the Board ratified President Miller's committee appointments for its four Standing Committees (Water Sustainability, Fiscal Policy, Warner Ranch, and Public Affairs) and for its two ad hoc committees which were carried over from the previous year (Indian Settlement and Groundwater) for 2017.

FISCAL IMPACT: None.

SUMMARY: The Indian Settlement ad hoc committee was established to advise and participate in the settlement negotiations for the San Luis Rey Indian Water Rights (SLRIWR) matter. On May 17, 2017, the SLRIWR matter was settled. Staff recommends terminating the Indian Settlement ad hoc committee, as its limited purpose has been satisfied.

Following enactment of the Sustainable Groundwater Management Act of 2014 (GSA), the Board authorized staff to investigate future management of the District's groundwater resources under the GSA and established the Groundwater ad hoc committee to address these matters. Staff recommends that the Board consider reclassifying the Groundwater ad hoc committee to be a Standing Committee, as it is anticipated that this matter will be ongoing, and the Committee's purpose will expand beyond addressing GSA related issues. If reclassified to be a Standing Committee, the Groundwater Committee meetings would be subject to the Brown Act with duly published meeting agendas and minutes of the Committee's activities. General Counsel and President Miller have reviewed and concur with the proposed changes.

ATTACHMENT: Draft revised 2017 Committee and Outside Organization Appointments

2017 COMMITTEE APPOINTMENTS

2017 District Officers

President	Marty Miller
First Vice President	Paul Dorey
Vice Presidents	Richard Vásquez, Patrick Sanchez, and Jo MacKenzie
Treasurer	Eldon Boone
Assistant Treasurers	Brett Hodgkiss and Marlene Kelleher
Board Secretary	Lisa Soto
Assistant Secretaries	Marian Schmidt and Eldon Boone

Standing Committees

Water Sustainability:	Vasquez, Chair; and Sanchez
Fiscal Policy:	Miller, Chair; and Paul Dorey
Warner Ranch:	Dorey, Chair; and MacKenzie
Public Affairs:	Vásquez, Chair; and Dorey
<u>Groundwater</u>	<u>Dorey, Chair, and MacKenzie</u>

Ad Hoc Committees

Indian Settlement:	Miller, Chair, and MacKenzie
Groundwater	Dorey, Chair, and MacKenzie

Outside Organizations

San Luis Rey Watershed Council:	Dorey; Jessica Sherwood (alternate)
ACWA-JPIA:	Dorey; Boone (alternate)
Southern California Water Committee:	Dorey; Vasquez (alternate)
Groundwater Resources Association:	Dorey; Vásquez (alternate)



Agenda Item: 10

STAFF REPORT

Board Meeting Date:

July 5, 2017

Prepared By:

Eldon Boone

SUBJECT: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

SUMMARY: Informational report by staff and directors concerning the San Diego County Water Authority. No action will be required.



San Diego County Water Authority

**SUMMARY OF FORMAL BOARD OF DIRECTORS' MEETING
JUNE 22, 2017**

- 9- 1. Monthly Treasurer's Report on Investments and Cash Flow.
The Board noted and filed monthly Treasurer's Report.
- 9- 2. Purchase of Water Authority Business Insurance.
The Board authorized the General Manager to purchase property insurance from Travelers Property Casualty Company of America in the amount of \$140,775, liability insurance from Allied World Assurance Company – CalMutuals JPRIMA in the amount of \$330,167, and workers' compensation from Zenith Insurance Company – CalMutuals JPRIMA in the amount of \$276,402 for a total amount of \$747,344; and adopted Resolution No. 2017-11, a resolution of the Governing Body of the San Diego County Water Authority authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure workers' compensation liabilities.
- 9- 3. Amendment to Agreement for Special Services with Liebert Cassidy Whitmore to increase the contract limit by \$120,000 to a total of \$390,000.
The Board authorized the General Counsel to execute an amendment to the agreement for special labor-related legal services with Liebert Cassidy Whitmore to increase the contract limit by \$120,000 from \$270,000 to \$390,000.
- 9- 4. General Manager's Recommended Budget for Fiscal Years 2018 and 2019.
The Board adopted Resolution No. 2017-12, approving the General Manager's recommended budget for Fiscal Years 2018 and 2019, for operations and capital improvements and appropriating \$1,584,127,560 consistent with the approved budget.
- 9- 5. Adopt the Water Authority's rates and charges for calendar year 2018.
The Board conducted the Public Hearing; adopted Ordinance No. 2017-01, an ordinance of the Board of Directors of the San Diego County Water Authority setting rates and charges for the delivery and supply of water, use of facilities and provision of services; adopted Resolution No. 2017-13, a resolution of the Board of Directors of the San Diego County Water Authority continuing the Standby Availability Charge; adopted Ordinance No. 2017-02, an ordinance of the Board of Directors of the San Diego County Water Authority amending and restating the System Capacity and Water Treatment Capacity Chargers imposed by the Water Authority pursuant to Section 5.9 of the County Water Authority Act; and found the actions exempt from CEQA pursuant to Public Resources Code § 21080(b)(8) and authorized the General Manager to file a notice of exemption.



San Diego County Water Authority

- 9- 6. Agreement with Oracle USA, Inc. to renew the Enterprise Resource Planning System software annual maintenance and support agreements.
The Board authorized the General Manager to renew the Enterprise Resource Planning System software annual maintenance and support agreements with Oracle USA, Inc., for four fiscal years at a total cost of \$899,085. The cost per fiscal year is \$214,906 for 2018; \$221,353 for 2019; \$227,993 for 2020, and \$234,833 for 2021.
- 9- 7. Ordinance amending chapter 9.00 of the Administrative Code.
The Board adopted Ordinance No. 2017-03, an ordinance of the board of directors of the San Diego County Water Authority amending chapter 9.00 of the Administrative Code.
- 9- 8. Pending Litigation.
The Board authorized General Counsel to engage counsel to defend and seek all available remedies for the noticed action.
- 9- 9. Notice of Completion for the Nob Hill Improvements project.
The Board authorized the General Manager to accept the Nob Hill Improvements project as complete, record the Notice of Completion, and release funds held in retention to L.H. Woods & Sons, Inc. following the expiration of the retention period.
- 9- 10. San Vicente Energy Storage Facility Study – Cost Sharing Agreement with the City of San Diego.
The Board authorized the General Manager to enter into an Agreement with the City of San Diego for implementation of Phase 3 Work for the San Vicente Energy Storage Facility Study.
- 9- 11. Anticipated Litigation.
The Board approved direction to engage counsel and initiate an action, and the action, the defendants, and the other particulars shall, once formally commenced, be disclosed to any person upon inquiry, unless to do so would jeopardize the agency's ability to effectuate service of process on one or more unserved parties, or that to do so would jeopardize its ability to conclude existing settlement negotiations to its advantage.
- 9- 12. Amend Existing Agreement to Allow for Temporary Use of a Portion of Water Authority's Storage Capacity in Semitropic Water Bank.
The Board authorized the General Manager to amend the Water Authority's existing recharge agreement with Homer LLC, a Delaware limited liability company (Homer) in Semitropic Water Storage District's Stored Water Recovery Unit and Original Water Bank to also allow Homer the use a portion of the Water Authority's storage capacity in calendar years 2017, 2018, and 2019; and found that the amendment to allow for storage use is not a new project under CEQA that would cause a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment.



- 9- 13. Existing Litigation.
The Board approved extending the following litigation contracts for the next two-year budget period: Keker Van Nest & Peters (\$4 million); Brownstein Hyatt Farber Schreck (\$2,863,712); Colantuono Highsmith & Whatley (\$25,000); Gordon Hess and Associates, Inc. (\$120,000); and Water Resource Consultants, Inc. (\$120,000).
- 9- 14. Adopt positions on various state bills.
A) The Board adopted a position of Support and Seek Amendments on SB 100 (De Leon), relating to the California Renewable Portfolio Standards program.
B) The Board adopted a position of Oppose Unless Amended on SB 623 (Monning), as proposed to be amended, relating to a public goods charge on water.
- 9- 15. Agreement for Regulatory Advocacy Services with the firm of Smith, Watts & Hartmann.
The Board approved an agreement with the firm of Smith, Watts & Hartmann for a period of 12 months, from July 1, 2017 through June 30, 2018, for a total amount not to exceed \$93,500.
- 9- 16. Recommendation of program goal for Small Contractor Outreach and Opportunities Program.
The Board authorized to continue the SCOOP program goal of 20 percent for fiscal year 2018.
- 9- 17. Professional Services Contract with Studio West Landscape Architecture & Planning for WaterSmart Landscape Makeover Program.
The Board authorized the General Manager to award a three-year professional services contract, with an option for a two-year extension, in an amount not-to-exceed \$381,000 to Studio West Landscape Architecture & Planning to implement the WaterSmart Landscape Makeover Program.



STAFF REPORT

Agenda Item: 11.A

Board Meeting Date: July 5, 2017
Prepared By: Lisa Soto
Approved By: Eldon Boone

SUBJECT: REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

SUMMARY: Directors will present brief reports on meetings and events attended since the last Board meeting.



STAFF REPORT

Board Meeting Date: July 5, 2017
Prepared By: Marian Schmidt
Approved By: Eldon Boone

SUBJECT: SCHEDULE OF UPCOMING MEETINGS AND EVENTS

SUMMARY: The following is a listing of upcoming meetings and events. Requests to attend any of the following events should be made during this agenda item.

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
1 *	Council of Water Utilities Meeting <i>July 18, 2017 – 7:15 a.m., Stoneridge Country Club, Poway</i> <i>Reservation deadline: 7/13/17</i>	Dorey
2	Sexual Harassment Prevention Training Webinar (ACWA/JPIA) <i>July 19, 2017 – 10:00 a.m. – 12:00 p.m.</i> <i>Registration deadline: None</i>	
3	Water Reclamation and Reuse Conference (International Water Association) <i>July 23-27, 2017 – Long Beach</i> <i>Registration deadline: 7/10/17</i>	
4	How to Communicate Effectively Using Online Tools Webinar (CSDA) <i>July 27, 2017 – 10:00 a.m. – 11:00 a.m.</i> <i>Registration deadline: 7/24/17</i>	
5 *	Council of Water Utilities Meeting <i>(No meeting in August)</i>	
6	Understanding the Brown Act (CSDA) <i>Aug. 16, 2017 – North of the River Recreation and Park District, Bakersfield</i> <i>Registration deadline: 8/10/17</i>	
7	Urban Water Institute’s Annual Water Conference <i>Aug. 16-18, 2017 – Hilton San Diego Resort</i> <i>Registration deadline: 8/2/17</i>	Vásquez (H)
8 *	CSDA Quarterly Dinner Meeting <i>Aug. 17, 2017 – 6:00-9:00 p.m. – The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 8/10/17</i>	MacKenzie Miller Sanchez Vásquez
9	Understanding the Brown Act (CSDA) <i>Aug. 23, 2017 – 9:00 a.m. – 1:00 p.m. – South Feather Water & Power, Oroville</i> <i>Registration deadline: 8/17/17</i>	
10	Staying in Compliance: Understand Special District Laws (CSDA) <i>Aug. 24, 2017 – Oxnard Harbor District, Port Hueneme</i> <i>Registration deadline: 8/18/17</i>	
11	Understanding the Brown Act (CSDA) <i>Aug. 30, 2017 – 9:00 a.m. – 1:00 p.m. – Port San Luis Harbor District, Avila Beach</i> <i>Registration deadline: 8/24/17</i>	
12	Legislative Round Up Webinar (CSDA) <i>Aug. 31, 2017 – 10:00 a.m. – 12:00 p.m.</i> <i>Registration deadline: 8/25/17</i>	MacKenzie (R) Sanchez (R)
13	Understanding the Brown Act (CSDA) <i>Sept. 6, 2017 – 9:00 a.m. – 1:00 p.m. – Coachella Valley Water District, Palm Desert</i> <i>Registration deadline: 8/31/17</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14*	Council of Water Utilities Meeting <i>Sept. 19, 2017 – 7:15 a.m., Stoneridge Country Club, Poway</i> <i>Reservation deadline: 9/14/17</i>	
15	Sexual Harassment Prevention Training Webinar (ACWA/JPIA) <i>Sept. 21, 2017 – 1:00 p.m. – 3:00 p.m.</i> <i>Registration deadline: None</i>	
16	CSDA Annual Conference <i>Sept. 25-28, 2017 – Marriott and Monterey Conference Center, Monterey</i> <i>Registration deadline: 9/8/17</i>	MacKenzie (H) Sanchez (H)
17	Groundwater Resources Annual Conference & Meeting <i>Oct. 3-4, 2017 – Hilton Arden West, Sacramento</i> <i>Registration deadline: TBD</i>	Dorey
18	Northern California Tour Field Trip (Water Education Foundation) <i>Oct. 11-13, 2017 – Sacramento International Airport</i> <i>Reservation deadline: 9/27/17</i>	
19*	Council of Water Utilities Meeting <i>Oct. 17, 2017 – 7:15 a.m., Stoneridge Country Club, Poway</i> <i>Reservation deadline: 10/12/17</i>	
20	Understanding the Brown Act (CSDA) <i>Nov. 1, 2017 – 9:00 a.m. – 1:00 p.m. – East Bay Municipal Utility District, Oakland</i> <i>Registration deadline: 10/26/17</i>	
21	San Joaquin River Restoration Tour Field Trip (Water Education Foundation) <i>Nov. 1-2, 2017 – Fresno</i> <i>Reservation deadline: 10/18/17</i>	
22	Understanding the Brown Act (CSDA) <i>Nov. 8, 2017 – 9:00 a.m. – 1:00 p.m. – Stockton East Water District, Stockton</i> <i>Registration deadline: 11/2/17</i>	
23	Required Ethics AB 1234 Compliance Training Webinar (CSDA) <i>Nov. 8, 2017 – 10:00 a.m. – 12:00 p.m.</i> <i>Registration deadline: 10/27/17</i>	
24*	CSDA Quarterly Dinner Meeting <i>Nov. 16, 2017 – 6:00-9:00 p.m. – The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 11/9/17</i>	
25*	Council of Water Utilities Meeting <i>Nov. 21, 2017 – 7:15 a.m., Stoneridge Country Club, Poway</i> <i>Reservation deadline: 11/16/17</i>	
26	ACWA Fall Conference <i>Nov. 28-Dec. 1, 2017 – Anaheim Marriott Hotel</i> <i>Registration deadline: TBD</i>	
27	Colorado River Water Users Association (CRWUA) <i>Dec. 13-15, 2017 – Location TBD</i>	
28*	Council of Water Utilities Meeting <i>Dec. 19, 2017 – 7:15 a.m., Stoneridge Country Club, Poway</i> <i>Reservation deadline: 12/14/17</i>	

* Non-per diem meeting except when serving as an officer of the organization

The following abbreviations indicate arrangements that have been made by staff:

A=Airline; **R**=Registration; **C**=Car; **H**=Hotel; **T**=Tentative



STAFF REPORT

Board Meeting Date: July 5, 2017
Prepared By: Lisa Soto

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

SUMMARY: This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

Staff-generated list of tentative items for future agendas:

- Rate adjustment policy
- Agreement with commercial real estate broker
- Weese treatment plant agreement amendment
- Association of California Water Agencies call for nominations for 2018-19 President and Vice President
- California Special Districts Association Board of Directors elections for Region 6, Seat C
- Grazing licenses on Warner Ranch
- Appointment of representative to the San Diego County Water Authority
- Lake Henshaw concessionaire agreement



Agenda Item: 13

STAFF REPORT

Board Meeting Date: July 5, 2017
Prepared By: Lisa Soto

SUBJECT: COMMENTS BY DIRECTORS

SUMMARY: This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.



Agenda Item: 14

STAFF REPORT

Board Meeting Date:

July 5, 2017

Prepared By:

Eldon Boone

SUBJECT: COMMENTS BY GENERAL COUNSEL

SUMMARY: Informational report by the General Counsel on items not requiring discussion or action.



Agenda Item: 15

STAFF REPORT

Board Meeting Date:

July 5, 2017

Prepared By:

Eldon Boone

SUBJECT: COMMENTS BY GENERAL MANAGER

SUMMARY: Informational report by the General Manager on items not requiring discussion or action.

NOTICE OF ADJOURNED MEETING
OF THE BOARD OF DIRECTORS OF THE
VISTA IRRIGATION DISTRICT

A REGULAR MEETING OF THE BOARD OF DIRECTORS OF VISTA IRRIGATION DISTRICT, HELD ON JULY 5, 2017, WAS ADJOURNED UNTIL 8:30 AM, JULY 19, 2017, AT THE OFFICE OF THE VISTA IRRIGATION DISTRICT, 1391 ENGINEER STREET, VISTA, CALIFORNIA.

* * * * *

AFFIDAVIT OF POSTING ORDER OF ADJOURNMENT OF MEETING

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO)

I, Marian Schmidt, hereby certify that I am the duly appointed, qualified Assistant Secretary of the Board of Directors of Vista Irrigation District; that the foregoing is duly noted in the Minutes of said Regular Meeting of the Board of Directors of Vista Irrigation District; that said Regular Board Meeting was ordered adjourned to the time and place above specified; and that I posted a copy of this order of adjournment near the public entrance to the Board Room at the offices of the District.



Marian Schmidt, Assistant Secretary
Board of Directors
Vista Irrigation District

POSTED: July 5, 2017