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Arroyo Flood Control Authority
Regular Meeting Minutes
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1. Call to Order and Roll Call

Chair Brown called the Regular Board Meeting to order at 10:00 a.m. Thursday, December 17, 2015. Roll was noted as follows:

Directors present:	Chair Ronald D. Brown Director Cynthia D. Borrego Director Tim Eichenberg Director Deborah L. Stover Director Bruce M. Thomson
Directors excused:	None
Attorney present:	Attorney Vanessa Chavez, Robles, Rael & Anaya
Others present:	Jerry M. Lovato, P.E., Executive Engineer Staff Other attendees on file at AMAFCA

A quorum was present.

2. Approval of Agenda

Director Thomson stated that **Item 10. Valle de Oro Drainage Facilities Design – Approve Recommendation of Selection Advisory Committee**, might be a perceived conflict of interest and asked that the item be moved to the Regular Agenda so he may recuse himself.

Director Stover made a motion to approve the agenda, as amended. Director Thomson seconded the motion, which passed unanimously (5-0).

3. Meetings Scheduled

- a. **January 28, 2016, 10:00 a.m. – Regular Meeting**
- b. **February 25, 2016, 10:00 a.m. – Regular Meeting**
- c. **March 24, 2016, 10:00 a.m. – Regular Meeting**

4. Items from the Floor/Public Comments

No one signed up for public comment.



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5. Approval of Minutes

a. November 19, 2015 Regular Meeting

Director Borrego noted that on page four, AMAFCA is trending below to budget should be listed as AMAFCA is trending to budget.

Director Thomson made a motion to approve the minutes, as amended. Director Borrego seconded the motion, which passed (5-0).

b. December 3, 2015 Special Meeting

Chair Brown noted that on page one, Chair Brown acknowledged Mr. White has been around for a long time should be listed as Mr. White has been a friend for a long time.

Director Eichenberg made a motion to approve the minutes, as amended. Director Borrego seconded the motion, which passed (5-0).

6. Financial Matters

a. Approval of November 2015 Expenditures

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the November 2015 Expenditures.

Responding to a question from Director Borrego, Mr. Lovato advised fuel prices are obtained from various retailers for purchase in bulk on a monthly basis. Responding to a question from Director Borrego, Mr. Chavez stated Mr. Jeffrey Willis, AMAFCA Real Estate Manager had been called as an expert witness in a case for the City of Albuquerque (CoA). As per AMAFCA policy, Mr. Willis had signed over the check, which was made out to Mr. Willis for his time. When Mr. Willis was notified that his testimony would no longer be needed AMAFCA cut a check to refund CoA Legal for the amount received. Responding to a question from Director Borrego, Mr. Lovato stated that South West Landfill takes construction material and is sometimes cheaper than using the CoA landfill. He further stated that South West Landfill and CoA Landfill do not give AMAFCA a break on tipping fees when their landfills are utilized. Responding to a question from Chair Brown, Mr. Lovato stated that trash and construction debris is generated when cleaning AMAFCA water quality structures. Responding to a question from Director Eichenberg, Mr. Chavez stated that he does a visual audit and review of the credit cards statement as soon as received. The Executive Administrative Assistant collects and holds the receipts, reviews, and codes as appropriate. He further stated if any issues are found they are brought to his attention and discussed. Responding to a question from Chair Brown, Mr. Chavez stated purchases are



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considered each cardholder's personal responsibility. If there are any missing receipts where a duplicate cannot be obtained the applicable staff member signs an affidavit, and provides the reason for the purchase(s). These purchases are coded appropriately as well. These steps are monitored on a monthly basis to make sure there are no habitual practices.

Director Thomson made a motion to approve the November 2015 Expenditure Report. Director Borrego seconded the motion, which passed (5-0).

b. Bank Reconciliation Fiscal Agent Funds

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the Bank Reconciliation Fiscal Agent Funds. No Board action was required. There were no questions.

c. Investment Report for November 2015

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the Investment Report for November 2015. No Board action was required. There were no questions.

d. Financial Position Recap November 16, 2015 through December 10, 2015 & Forecast December 11, 2015 through January 15, 2016

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the Financial Position Recap and Forecast. Responding to a question from Director Thomson, Mr. Lovato stated that the check for the U. S. Geological Survey (USGS) for \$34K was for the final report that covered report years 2006 to 2012. AMAFCA did not accept the original draft; however, the report was redone to meet AMAFCA standards, and the check was issued. Responding to a question from Director Thomson, Mr. Chavez stated \$120K was to be transferred to the Building and Maintenance Fund for the expansion of the AMAFCA yard. The estimated cost for the project is \$500-600K. The current Building Yard Fund has approximately \$460K already in the account.

Director Thomson made a motion that the Board approve the Financial Forecast. Director Borrego seconded the motion, which passed (5-0).

7. Legal

a. Status Report

Attorney Vanessa Chavez stated that the memo to the Board pertained to various legal matters. Responding to a question from Director Thomson, Ms. Chavez stated that the issue AMAFCA had regarding Professional Liability Insurance was as follows:



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- Whether or not the requirements AMAFCA imposes on contractors for Professional Liability Insurance is sufficient for claims in the aggregate;
- Whether contractors have sufficient insurance for aggregated claims if the same policy is used across multiple contracts with AMAFCA; and
- Is their coverage under one policy considered independent for each contract with the aggregate limit applying exclusively to that contract.

Both Ms. Chavez and Mr. Lovato confirmed that the Professional Liability Insurance issue applied to the professional engineers contracts.

b. Closed Session to Discuss the Acquisition of Real Property (§10-15-1(H)(8))

Chair Brown advised that Item 7b was a Closed Session agenda item; however, this agenda item was not needed due to the fact that no new information was presented to AMAFCA before the Board meeting.

8. Executive Engineer's Report

Mr. Jerry Lovato, AMAFCA Executive Engineer, highlighted significant activities of the past month:

- **City of Albuquerque**

Bear Canyon Arroyo: The Board of Directors instructed staff to contact the CoA concerning the possibility of a joint project to address erosion along the portion of the Bear Canyon Arroyo between Moon and Eubank. This area had been identified as a possible aquifer recharge zone and is currently being studied by the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) for the Bear Canyon Recharge and Large Scale-Aquifer Storage and Recovery Project.

Discussions with CoA and ABCWUA indicate that a soft bottom, naturalistic channel was better for water quality and aquifer recharge than a concrete lined channel. In the next few months, AMAFCA will use an On-Call Engineer to develop possible regional water quality features that can be built in this section of the Bear Arroyo. This portion of the Bear Canyon Arroyo includes a multi-use trail along the north side of the channel and a number of grade-control drop-structures.

There was a discussion regarding a multitude of steps to allow people to walk up and down, as well as the possibility of a ramp area along the side for maintenance access. This will also allow the public to walk the ramp if they do not want to walk the steps.



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Channel Road: AMAFCA has been working with the ABCWUA and the United States ARMY Corps of Engineers (USACE) to identify possible issues that may cause a problem with the design and construction schedule published by the CoA. AMAFCA will issue a license to CoA for work that will modify the Osuna Bridge over the North Diversion Channel (NDC). This license will include different language concerning insurance coverage.

Web EOC: The Albuquerque Office of Emergency Management has purchased WEB-EOC. AMAFCA has been working with the Emergency Managers to allow for a locally configurable incident and event management system that will be used in a flood emergency. CoA will provide training to AMAFCA staff in the near future. Staff should be able to provide information before the next monsoon season.

- **AMAFCA**

New Mexico Self-Insurers Fund: AMAFCA requested an audit of AMAFCA facilities to confirm that operations and maintenance activities are appropriate to guarantee that AMAFCA has Tort protection. The audit included a field visit and a summary overview of AMAFCA records. The audit results were very positive and highlighted the new Task Order tracking system instituted this year, as “this is how it should be done”. Mr. Lovato gave high praise to Mr. Wagener and the maintenance staff. The audit suggested additional language be inserted into all licenses, stating that AMAFCA be named as an additional insured during the entire duration of the event and/or project.

Nature Conservancy in New Mexico: The AMAFCA Board had instructed staff to work with the Nature Conservancy concerning possible funding of the Rio Grande Water Fund. The Board had asked that AMAFCA get involved due to their concern with forest fires that could burn portions of the Cibola National Forest that drain into AMAFCA’s jurisdiction. Long term funding can be addressed by AMAFCA becoming a sustaining member. Staff will be meeting in mid-January to discuss possible projects in the Cibola National Forest with Bernalillo County (BernCo), US Forest Service, and the Nature Conservancy.

Hamilton Dam: AMAFCA had contracted with an On-Call Engineer to start work on a traffic study that will be used to determine the best footprint for the dam. The traffic study was required by BernCo as part of the planning effort of AMAFCA.

North Diversion Channel Outfall Grade Control Project: Work on the project will start on Monday, December 21, 2015. Work will be done near the river to fill in the embayment area, between the river and the equipment crossing.



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Boca Negra Dam:

Letter of Map Revision: As previously communicated, the LOMR was submitted by AMAFCA on October 30, 2015. Staff had received comments from FEMA concerning the submittal. The comments will be addressed by AMAFCA using an On-Call Engineer.

Emergency Action Plan: AMAFCA will be talking with the Office of the State Engineer (OSE) to address their comments.

- **EPA - Urban Waters**

Urban Waters Federal Partnership: The Environmental Protection Agency (EPA) facilitated two discussions between permittees, EPA, and the New Mexico Environmental Department concerning the establishment of the first cooperative agreements in support of the new Watershed Based Permit. The cooperative agreements will need to have clear lines of communications and designate responsibilities for each signatory.

AMAFCA Stormwater Management Plan: AMAFCA has revised its stormwater management plan to address changes and new requirements in the new watershed based MS4 permit. The document has been through public review, but will not be submitted to EPA until the AMAFCA Notice of Intent (NOI) is approved.

- **Public Outreach**

Twinkle Light Parade: AMAFCA participated in this year's parade. The parade route through the Nob Hill area was well attended. AMAFCA took Second Place for the government category, right behind the Albuquerque Police Department, which placed in the Best of Show category. Directors Stover and Thomson attended.

Responding to a question from Chair Brown, Mr. Lovato stated that the traffic study to be done for Hamilton Dam should show it is possible to close a portion of Eubank Boulevard to maximize storage and minimize the embankment height. Chair Brown stated that this suggestion was a comment brought up at the Public Meeting by one of the residents in the area; it had not been thought of before.

- b. Notification of On-Call Services Task Orders**

Mr. Lovato referred to his memo for the task orders that had been issued the prior month. There were no questions.



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9. Legislative Liaison

a. Legislative Liaison – Consideration of Approval of First Extension of Professional Services Agreement with Alarid Consulting

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that the contract with Alarid Consulting was up for extension.

Director Eichenberg made a motion to authorize the Executive Engineer to extend the contract with Alarid Consulting for a one-year term, as per the provisions of the contract. Director Borrego seconded the motion, which passed (5-0).

b. Briefing before 2016 New Mexico Legislative Session

Ms. Vanessa Alarid with Alarid Consulting presented the Board with an update for the 2016 New Mexico Legislative Session. Some of her presentation pertained to the following:

The Taxation and Revenue Stabilization Tax Policy Committee had met recently for two days at the Legislature talking about tax issues. The State is currently at a \$62.B budget. The price of oil is currently at \$28.56, which is determined off \$57.00 a barrel. \$232M of new monies projected with \$80M to be dedicated towards Medicaid Expansion. Chairman Harper, Chairman of the Ways and Means Committee, had drafted a bill that will not allow municipalities and counties that have the Hold Harmless Tax, which is a portion of the New Mexico Gross Receipts Tax, and be able to receive the same money (from taxing medical and food) from the State. At the last Board Meeting, the Chair had signed a letter that was sent to CoA and BernCo in order to combine lobbying efforts for possible Capital Outlay money. Ms. Alarid stated she met with Mr. Lovato and neither had received any information back from the jurisdictions. At the Stabilization and Tax Policy meeting there were only nine bills discussed; there are usually 25 bills. Hunters and Law Enforcement Bills were the main bills discussed. There is a Pension and Investment Bill that Chairman Harper brought up that allows those people who have retired to go back to work without double dipping. Mr. Mark Fleisher, working with Alarid Consulting, stated at the last Regular Board meeting it was suggested to draw up a Joint Resolution for Kirtland Air Force Base (KAFB). He stated he spoke with Representative Sheryl Williams Stapleton and he knew that Director Thomson did as well. It was the consensus of the Board and Alarid Consulting that a Resolution would not be the proper way to handle the issue(s) and to work directly with KAFB since the KAFB Commander/Colonel and others are now open to discussing flooding near the base and helping to find a solution.



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Consent Agenda:

The Consent Agenda was modified earlier in the meeting to move agenda Item 10. Valle de Oro Drainage Facilities Design – Approve Recommendation of Selection Advisory Committee be moved to the Regular Agenda.

Chair Brown stated that agenda Items 11 through 14 were on the Consent Agenda. There being no further items on the Consent Agenda, Director Eichenberg made a motion that the Board:

- Authorize the Executive Engineer to advertise Request for Proposals for engineering services for the Tijeras Arroyo Facility Management Plan;
- Accept the recommendation of the Selection Advisory Committee and authorize the Executive Engineer to commence negotiations with AECOM Technical Services, Inc. for the 2016 On-Call GIS, IT, DBA, and Mobile Services;
- Approve the Agreement with Smith Engineering Company to provide Professional Engineering Services for the Agency and Area-Wide Flood Control Maintenance Project 2015 - 2016 on a time and materials basis, with the cost not to exceed \$118,779.00, not including New Mexico Gross Receipts Tax; and
- Approve the On-Call Engineering Services Agreements for Categories I through III and authorize the Chair to execute same on behalf of AMAFCA.

Responding to a question from Director Borrego, Mr. Lovato clarified that the On-Call contracts on the Consent Agenda were for separate contracts; one for the 2016 On-Call GIS, IT, DBA, and Mobile Services, and the others were for the On-Call Engineering Services, Categories I to III.

Director Borrego seconded the motion, which passed (5-0).

10. Valle de Oro Drainage Facilities Design – Approve Recommendation of Selection Advisory Committee

Mr. Jerry Lovato, AMAFCA Executive Engineer advised that Ms. Lynn Mazur was out and would not be able to present this item. He advised that three companies submitted for the project. The Selection Advisory Committee had recommended Wilson & Company Inc. Responding to a question from Chair Brown, Mr. Lovato stated the project would design the flood control portion at Valle de Oro. It will also connect 2nd Street drainage to the Barr Drain.

Director Thomson stated that he asked that this item be moved off the Consent Agenda due to the fact his wife is employed with Sites Southwest, which is a subcontractor of Wilson and Company.

Responding to a question from Director Eichenberg, Mr. Lovato stated that AMAFCA does have blind estimates, which have not been opened yet. Director Eichenberg stated that he would



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encourage Wilson and Company to think outside of the box while planning the design of the Valle de Oro Drainage Facilities. Mr. Lovato agreed that with all of the possibilities that AMAFCA and Wilson and Company would be thinking outside the box for this project.

Director Eichenberg made a motion that the Board accept the recommendation of the Selection Advisory Committee and authorize the Executive Engineer to commence contract negotiations with Wilson & Company, Inc. Director Borrego seconded the motion, which passed (4-0), Director Thomson recused himself.

Regular Agenda:

15. AMAFCA Field Highlights

a. Construction Report

Mr. Jerry Lovato, AMAFCA Executive Engineer, referred to the Construction Report. There were no questions.

16. Bernalillo County Projects

a. Sunset Road Reconstruction Project – Consideration of Approval of Funding Agreement with Bernalillo County

Mr. Jerry Lovato, AMAFCA Executive Engineer advised that Ms. Lynn Mazur was out and would not be able to present this item. He further stated that the item was to approve the Funding Agreement, which was presented to the Board at the November 2015 Board meeting. This will complete the Sunset Road project. The Board instructed staff to proceed with the final draft. BernCo will take the lead in the project and will help fund the design, LOMR, and construction associated with the project. AMAFCA staff included a suggestion from Ms. Vanessa Chavez, Attorney with Robles, Rael and Anaya, to add a sunset clause to the agreement. The specific clause is paragraph 4.11. The final revisions are being reviewed by BernCo's legal counsel. Staff had recommended approval.

Director Thomson made a motion that the Board approve the Agreement, substantially the same as attached, and authorize the Chairman to execute the Funding Agreement with Bernalillo County for the Sunset Road Reconstruction Project. Director Stover seconded the motion, which passed (5-0).



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b. Garduño Road Drainage Improvements Project – Presentation of Draft Funding Agreement with Bernalillo County

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that the Village of Los Ranchos (VoLR) Ortega and Garduño Road project is still on the AMAFCA books. BernCo will take the lead in the project. The draft agreement is a three party agreement between BernCo, VoLR, and AMAFCA. The old agreement will need to be rewritten. AMAFCA will provide a lump sum for \$1.925M, which is the \$2M allocated in the 2008 agreement, minus \$75K spent for the design analysis report.

One item that is different; VoLR is responsible for the design and construction of the Garduño Road drainage portion, if they want to do it. If VoLR does not want to do the project west of 4th Street, BernCo will only design and construct storm drain on Ortega and 4th Street. Responding to a question from Chair Brown, Mr. Lovato stated that the VoLR had never brought money to the table originally. The split for funding is 40 percent from AMAFCA and 60 percent from BernCo.

Responding to a question from Director Borrego, Mr. Lovato and Chair Brown recognized Mr. Donald “Don” Lopez, Mayor Pro Tem and Trustee for VoLR was present. Mr. Lopez thanked the Board for letting him comment on this agenda item. He stated that he has been talking to VoLR Administration and Trustees to make sure the VoLR will move forward. He further stated that VoLR has money; money is not an issue. Every time there is a heavy storm, they receive calls to come out to pump out the area. Responding to a question from Director Eichenberg, Mr. Lopez stated again that there is money. Responding to a question from Director Thomson, Mr. Lopez stated that the VoLR had looked at options in the past and met with Mr. Lovato. He further stated that there was some reluctance to put storm water in certain locations, but he is hoping VoLR will consider that option. He would like to work together with AMAFCA. Chair Brown stated that he would be happy to attend a meeting with VoLR to provide some support for this issue. Mr. Lopez advised he would mention it at the VoLR January meeting.

Responding to a question from Director Thomson, Mr. Nolan Bennett with BernCo reiterated that if VoLR wants to design and fund the area on Garduño west, their flows in the adjacent area would be accommodated. Mr. Lovato stated that the original plan is no longer available to AMAFCA. The water needs to go through the storm drain, which will discharge into the Alameda Drain where it then discharges into the riverside drain near the Albuquerque County Club area; then out to the river. Director Thomson commented that it makes a lot of sense to do a collaborative project as opposed to piece meal.



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17. AMAFCA Projects

a. NPDES Permit – Update on the Middle Rio Grande Watershed Based Municipal Separate Storm Sewer System (MS4) Permit

Mr. Patrick Chavez, AMAFCA Storm Water Quality Engineer, stated the MS4 Annual Report was submitted on December 1, 2015. EPA is transitioning from a calendar year to a fiscal year for next year. Responding to a question from Chair Brown, Mr. Chavez stated that EPA would be transitioning to AMAFCA's fiscal year (July 1 to June 30). The EPA workshops have been beneficial in order to develop the framework for cooperative procedures and/or joint agreements amongst the various MS4 permittees in the watershed given the new Watershed Based Permit (WBP). AMAFCA's Storm Water Management Plan (SWMP) Update is complete. The final SWMP had not been submitted to EPA, because AMAFCA is still awaiting approval of its NOI to discharge under the new permit. Until approved, AMAFCA is still covered under the old MS4 permit and must comply with the old permit requirements. EPA will have AMAFCA's NOI posted to the EPA website any day now and after the 30-day public comment period AMAFCA will be able to discharge under the permit. There are twelve permittees, of which only four have received their NOIs. Responding to a question from Chair Brown, Mr. Chavez stated those who have received approval of the NOIs are CoA, City of Rio Rancho, University of New Mexico, and BernCo. Responding to a question from Director Thomson, Mr. Chavez stated that the eight remaining permittees (ESCAFCA, SSCAFCA, New Mexico Department of Transportation, Sandoval County, VoLR, and Corrales) are waiting for EPA approval. Responding to a question from Director Thomson, Mr. Chavez stated that the proper paperwork has been filed and awaiting EPA approval. Mr. Lovato stated that the reason this is an important subject is that AMAFCA needs to have clear direction under which permit AMAFCA will be under. AMAFCA cannot afford to be under two permits (old and new) for budget reasons. Responding to a question from Chair Brown, Mr. Chavez advised by February 22, 2016 AMAFCA will be able to sample under the new permit. Responding to a question from Director Thomson, Mr. Chavez stated there are seven events that need to be sampled in five years: three wet season, two dry season, and two others.

b. San Mateo to Moon Mini Drainage Management Plan – Project Update – Potential Ponding Areas

Mr. Jerry Lovato, AMAFCA Executive Engineer stated that at the November Board Meeting the revised runoff study from Smith Engineering was presented. It showed that runoff was reduced if 12 potential pond sites identified within the study area are considered. The study showed that there is a 61%-85% reduction in flows by ponding water in the watershed and releasing.

- From 506 cubic feet per second (cfs) to 77 cfs at San Mateo and Constitution
- From 466 cfs to 64 cfs at San Mateo and Mountain



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- From 491 cfs to 192 cfs at San Mateo and Lomas

The Board had directed staff to complete the Mini Drainage Management Plan and to explore possible ponding areas. Mr. Lovato stated he had discussed pond #4, which is located east of Louisiana on Central Avenue (old Caravan East). CoA is interested in buying the property and collaborating with AMAFCA to purchase additional land. Staff would like to start preliminary discussions with CoA staff to develop a draft funding agreement to purchase the land needed to reduce flood plain. The agreement will outline funding, design and maintenance responsibilities for that piece of property. Responding to a question from Chair Brown, Mr. Lovato stated that the project would be a joint acquisition. AMAFCA will construct the concrete structure and specific areas will be split for maintenance (similar to what was done with Valle de Oro). Responding to a question from Chair Brown, Mr. Lovato stated that AMAFCA would be responsible for taking care of sediment and trash. Responding to a question from Chair Brown, Mr. Lovato stated he has not heard if CoA or the public regarding putting a fence around the pond. CoA will take the lead in the property acquisition and had already received a Phase I investigation, and ordered a Phase II. Responding to a question from Director Thomson, Mr. Lovato stated that the pond is estimated to accommodate 30-acre feet of storage; however, may only get 20-acre feet. AMAFCA would be able to tap into the Dallas Storm Drain. Responding to a question from Director Thomson, Mr. Lovato stated that pond #4 is approximately five acres. Director Eichenberg questioned whether utilizing five acres of commercial land on Central Avenue was a good move. Responding to a question from Director Thomson, Mr. Lovato stated that there is a library planned for this location. Director Borrego stated that a library would be good addition to this area and it might help stimulate future uses. Responding to a question from Director Eichenberg, Mr. Lovato stated that the property is for sale and CoA has been talking to the owner for approximately a year. Mr. Lovato further stated that planning efforts for this location have been done and were partially funded by a grant from the National Endowment for the Arts/Our Town Program, of which AMAFCA was also a participant. AMAFCA's involvement had been limited to storm water quality and the possibility of a joint facility (surge pond) that could address flooding issues along San Pedro and Louisiana. Responding to a question from Chair Brown, Mr. Lovato stated that CoA has not agreed to any other pond site(s).

Mr. Lovato stated that a draft agreement for consideration would be presented at a future Board meeting.

c. KAFB Drainage Update

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated runoff from Kirtland Air Force Base (KAFB) contributes to floodplain in the San Pedro and Gibson area. According to the 2010 census, there are approximately 936 parcels and an estimated 8,400 people that are impacted by flooding in the area.



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AMAFCA will need to comply with the National Environmental Policy Act (NEPA) for the proposed detention facility. A Categorical Exclusion, Level 3 may be utilized. If so, the project would be excluded from the preparation of an environmental impact statement and environmental assessment. If a categorical exclusion were not available for the project, then AMAFCA would move forward with a request for proposals to complete an environment impact statement, which might take over a year to complete. An On-Call Engineer would be utilized.

Director Thomson has been on the phone with State Legislators and local individuals such as Counselor Davis, and met with Senator Henrich's staff to make other parties aware of the challenges and the efforts to resolve them. He recently met with the KAFB Colonel and advised that the outcome was very positive. He further stated that the option of leasing land was suggested and not previously discussed in detail. A lease could be no cost all the way up to a substantial cost. The Colonel's thought was if AMAFCA was putting up the money for most or a portion of the project it should sufficient to cover the financial term of the lease. Subsequently, Mr. Lovato had pointed out that the leases are usually for five years and insurance might need to be obtained for a longer amount of time for the financial portion. The Colonel was personally committed to make sure it happens, and while would have to work through the Federal hurdles, would be tracking the project to move it along as expeditiously as possible. Director Thomson advised he was very encouraged by this last meeting with KAFB.

Chair Brown advised that he had spoken with staff from Senator Udall's office to see if they can be of help to nudge to KAFB to consider getting this project done. He further stated they would be willing to help.

18. AMAFCA Telemetry

a. AMAFCA Telemetry Phase I – Project Update – Presentation by AECOM

Mr. Kevin Troutman, AMAFCA GIS Manager, stated Misters Jim DeAngelo, Robert Hawthorne, and Joseph Jaramillo with AECOM were present. Mr. Troutman stated that at the last Board Meeting the Board had asked for an update. AECOM had completed the design of the project. After looking at a few options including licensed radio, unlicensed radio, and cell use, it was decided that cell was the best option.

This project consists of the following:

- Installation of depth measuring equipment at the five-gated dams: Piedras Marcadas Dam, Amole Dam, Don Felipe Dam, Raymac Dam, and McCoy Dam;



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- Installation of depth measuring equipment at two channel locations at North Diversion Channel and Embudo Arroyo confluence, (The North Diversion Channel confluence site will have live video, which will be recorded during rain events); and
- Installation of depth measuring equipment at the Hahn Arroyo near the water quality structure. The Hahn Arroyo location will transmit pictures at a regular interval and record video on-site for later retrieval during rain events.

Mr. Troutman introduced Mr. Jim DeAngelo with AECOM. Mr. DeAngelo covered the following:

Work Completed

- Connectivity Analysis
 - Communication Selection
- Prototypical Design (Dams & Channels)
 - Easily Adaptable to Other Locations
- Base Station Design
 - Backbone Infrastructure for Future Development

100% Summary

- 5 Dam, and 2 Arroyo Stations Designed
- Base Station and Software Specified
- System will notify current conditions
- System is designed to be expandable

Capabilities and Benefits

- Improved utilization of staff / Improved Safety
- Automated warnings / Improved situational awareness
- Expandable System to include more sites / additional data types for water quality
- Remote access to data via web

Key Design Elements

- Solar Powered
- Pressure Sensor / Rainfall Gauge
- Cellular Modality
- Minimal Dam disturbance
- Expandable to include additional sensors
- Real Time Video at Diversion Channel Confluence

Responding to a question from Director Thomson, Mr. Lovato stated that AMAFCA has talked about focusing a camera on the AMAFCA yard. Mr. Troutman advised that the system is off the



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shelf and will have better lowlight capabilities. Responding to a question from Director Borrego, Mr. Troutman stated the system would be utilizing a cell phone, which will end up being a text message back to AMAFCA. Responding to a question from Director Borrego, Mr. Troutman stated AECOM did all the research on the different companies. Responding to a question from Director Eichenberg, Mr. Jaramillo stated that AECOM would be starting in January for a 105-day completion. Responding to a question from Director Eichenberg, Mr. DeAngelo advised that AECOM would be working with the successful bidder to put the website together. Mr. Troutman stated that AMAFCA is looking at data to move to a more public friendly location without exposing AMAFCA to a cyber-attack. All information would be housed on AMAFCA's server with no outside access. Responding to a question from Director Borrego, Mr. Troutman stated that the Wi-Fi would be read only and used for the connection to radar and the AMAFCA office. AMAFCA will not have Wi-Fi for any other purpose.

Responding to a question from Director Eichenberg, Mr. Lovato stated the \$72K is for the construction management of the AMAFCA Telemetry Project Phase 1. He further stated that the additional costs are because AMAFCA wants control of the software. AMAFCA does not want to be bound by proprietary software from another company. He further stated this information was provided to the Board approximately 8 months ago. Responding to a question from Director Borrego, Mr. Troutman stated that for the near term there is no additional software needed. As new technologies emerge, the systems capabilities are expandable. Responding to a comment from Director Borrego, Mr. Troutman stated that the project technology should be supported for at least a decade and that the project will not be using band technology.

There was discussion on the high cost of construction management services considering there is only \$13K for software, how software becomes outdated quick, and how AMAFCA needs to prepare for enhancing the software. Responding to a question from Director Thomson, Mr. Troutman stated the Design Cost was \$177K. It was also mentioned that the Board is not comfortable going from \$230K to 500K. Mr. Lovato stated this is only Phase I. In the future, the monitoring stations will be rolled out to all AMAFCA facilities with no additional design work, it will be about \$1M for construction, but in five years, the project will be bigger.

Chair Brown asked for the original information and the projection to cost be presented at the January Board Meeting.

Director Eichenberg made a motion that the Board table this item until the January 2016 Board Meeting. Director Borrego seconded the motion, which passed (5-0).



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**b. AMAFCA Telemetry Phase I – Consideration of Approval of Amendment Three
for Construction Management Services with AECOM**

This agenda item was merged into the previous one.

c. AMAFCA Telemetry Phase I – Authorization to Advertise for Construction Bids

Due to the outcome on the previous agenda item, this was not discussed.

19. Unfinished Business

None.

20. New Business

None.

21. Adjourn

There being no further business to come before the Board, Chair Brown adjourned the meeting at 11:34 a.m.

Tim Eichenberg, Secretary-Treasurer, 1/28/16

Recorded by Guylene Harris, Executive Administrative Assistant