

TRUCKEE TAHOE AIRPORT DISTRICT
BOARD OF DIRECTORS AGENDA ITEM SUMMARY

Topic: Engineering Related Project Activities

Purpose	Information: X	Guidance:	Decision:
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Recommendation	None, for information only
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Last Action	Presentation at January 2013 Meeting
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Discussion	The purpose of this memorandum is to update the Board of Directors on the status of various engineering, construction, and/or management related projects since last reported in January.
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DRAINAGE REPAIR – HANGAR ROW C

You will remember that pavement patching in front of the odd-numbered “C” row hangars in 2012 resulted in a roof runoff draining back into the hangars due to the floors being up to 1-1/2 inches lower than the adjacent asphalt. Staff believes the most economical fix is to cut grooves in the asphalt to drain water away from the building toward the center of the taxiway; additional surveying showed the required length of the grooves to ensure positive drainage ranged between six and 20 feet due to variations in the elevation of the asphalt. Staff met with two construction firms that have the specialized equipment necessary to do the project; unfortunately, we learned their machinery does not have the type of level control sophistication that would enable the groove elevations to exactly match the engineering design. One of the companies is willing to bring their machine, and most experienced operator, up for a day to try to correct the problem for a flat fee of \$3,500; staff still believes this is the best approach and is working to schedule the contractor. If we’re not successful, staff will research additional, albeit likely more expensive, alternatives.

RUNWAY SAFETY AREA – TREE REMOVAL

No activity to report this month, the next step is to have the forester review the area, and specifically trees to be removed, for both archaeological and biological/wildlife impacts now that the ground is visible. We will also have her verify the health of the trees designated to remain to confirm that the removal activity is not “short-sighted” and finally staff will contact TTSA since some of the trees on the end of Runway 11 are on that agency’s property.

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FACILITIES MAINTENANCE PLAN – AIRPORT STRUCTURES

Significant progress has been made on this project:

- A kickoff meeting with area professionals to discuss scopes-of-work and a tour of the 26 facilities was held in February;
- A Supplemental Agreement between Acumen Engineering and the District and sub-consultant agreements between Acumen Engineering and the various firms have been prepared and executed.
- Inspections by the coatings contractor and electrical engineer have already commenced.

The Plan will include the following information:

- Short-term (1-5 years) deferred maintenance requirements and budget costs (written discussion and table(s))
- Long-term (5-20 years) scheduled maintenance requirements and budget costs (written discussion and table(s))
- Identification of replacement structures/components if maintenance is not possible or cost prohibitive
- General specifications/guidelines for staff performed work. Plans/Specifications for contracted work to be prepared under separate contract(s)

The firms under contract and their respective responsibilities include:

- Holdrege & Kull: Foundation settlement and concrete slab movement/condition
 - Gabbart & Woods: Structural systems such as columns, door supports, purlins/girders and diagonal bracing. Miles Construction of Carson City will be assisting G&W with metal roofing/siding evaluation and hangar door operations.
 - SA Engineering: Electric panels/circuit protection, emergency power and switching, service and emergency lighting and low voltage (alarms)
 - Prosser Building and Development: heating and ventilating, hot water, fire suppression.
 - West Coast Coating Consultants: exterior coatings and corrosion repairs to structural components
 - Ward-Young Architects: ADA and exiting compliance at warehouse building
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Acumen Engineering will provide project management services.

A draft report will be presented to staff by May 15th with the final report and recommendations completed by July 1st.

AIRPORT MAPPING

Another long-term project is development of Geographic Information System (GIS) mapping layers showing all of the above- and below- ground airport infrastructure. Staff has been meeting to make sure we understand recently issued FAA Advisory Circulars related to the specifications for the collection of airport data for the *FAA Airport Surveying – Geographic Information System Program*. While not necessarily an FAA issue, we are in contact with local utility providers to gather data from those agencies to understand and document the infrastructure on and around the airport. This data is also helpful in staff's discussions with JMA Ventures re: the possible long-term property lease.

2013 PAVEMENT PROJECT

Reinard Brandley's office is under contract with the District for preparation of this summer's pavement repair and maintenance work. Because of Brandley's exceptional knowledge of FAA design and construction requirements, the General Manager and I agreed it would be most effective for that firm to take the lead on this summer's project. Based on the likely timing of the FAA funding, staff expects the project will not start until after the Air-Fair on July 6th.

Fiscal Impact	Hangar Row C – Projected to cost less than \$5,000. Runway Safety Area – Tree Removal – Budgeted at \$50,000 Facilities Maintenance Plan – contracted amount is \$56,659. Airport Mapping – projected to cost less than \$4,000 for utility and infrastructure data gathering and input 2013 Pavement Project -- \$1,150,000 based on initial estimate
Communication Strategy	Solicit input from hangar and building tenants re: issues with buildings
Attachments	Airport Facilities Exhibit
