



September 13, 2024

Ms. Abigail R. Germaine  
Ada County Drainage District No. 3  
Elam & Burke  
251 E. Front St., Ste. 300  
Boise, ID 83702

Re: Boise State University Pump Station

Dear Abbey:

This office originally provided comment on this project on June 6, 2024 based on stamped engineering drawings by the Land Group dated April 3, 2024 depicting the construction of a new pump station to provide pressurized irrigation service to Boise State University (BSU).

Since that time, we have been in correspondence with and provided additional comment to The Land Group based on feedback received from the Board at the June, July, August, and September Board meetings. Based on that correspondence and our initial June 6, 2024 review, The Land Group provided revised drawings dated July 23, 2024 and July 30, 2024. The July 30, 2024 drawing set was again updated on September 3, 2024 to incorporate additional comments received from this office. In our opinion, this most recent set of drawings has addressed the technical review comments that have been provided to The Land Group and is attached for reference.

Based on the information provided with the most recent design drawings, we recommend approval of the project as designed with the following conditions to be included in a Drainage Agreement with BSU (the Applicant):

1. Due to potentially challenging construction constraints related to project implementation, as a part of the Agreement require that the Applicant direct their selected Contractor to provide a construction implementation plan to include the following:
  - a. Construction sequencing.
  - b. Construction excavation shoring needs, if any.
  - c. Temporary water conveyance and/or pumping plan to provide uninterrupted drainage conveyance around or through the site during construction.
  - d. An emergency mitigation plan to be initiated should a large rainfall or snowmelt event occur during construction that could overwhelm the temporary drainage conveyance works to ensure surrounding properties, with particular emphasis on Big Jud's, not be adversely affected by an uncontrolled flood event.
  - e. Overall construction schedule with project milestones to ensure that Drain A can reasonably be removed from service and returned to permanent service outside of the irrigation season.
  - f. The construction implementation plan shall be presented by the Contractor at a pre-construction conference to take place a minimum of 14 days prior to commencing construction activities affecting Drain A. The pre-construction conference shall at a minimum include attendance by a representative of the Applicant, the Contractor, the Design Engineer, and the District Engineer.
2. Due to known physical capacity limitations in Drain A downstream of the proposed project between 2015 and 2201 West Boise Avenue, provide technical verification that Drain A has sufficient existing capacity to convey the proposed pump station Phase 1 design capacity of 1,500 gpm (3.34 cfs).



3. If the Applicant is able to demonstrate sufficient Drain A capacity as described in Recommendation #2 above, discharge into Drain A should be limited to no more than 1,500 gpm (3.34 cfs) until such time as the physical capacity limitation of Drain A between 2015 and 2201 West Boise Avenue has been eliminated. At such time, the maximum discharge into Drain A from the pump station should be limited to no more than 2,000 gpm (4.46 cfs).
4. Following construction completion, the selected contractor shall complete a CCTV inspection of the new Drain A facilities per District specifications prior to returning Drain A to permanent service.

Thank you for the opportunity to provide comment on this project.

Sincerely,  
**QRS CONSULTING LLC**

A handwritten signature in blue ink that reads 'Nicholas A. Kraus'.

Nicholas A. Kraus, PE  
Principal

cc: Ms. Megan Everard

Attachment: Boise State University South Campus Pressurized Irrigation Drawings (Dated 7/30/24 with revisions 9/3/24)