



# JAMES A. SEWELL & ASSOCIATES, LLC

1319 North Division Avenue  
Sandpoint, Idaho 83864  
(208) 263-4160

• Civil Engineering • Land Surveying • Building Inspection • Land Use Planning

November 8, 2019

Erik Brubaker  
City of Ponderay  
P.O. Box 500  
Ponderay, ID 83852

RE: Kaniksu Health Services Parking Lot Expansion

Dear Erik,

Attached is a Site and Drainage Plan for the above referenced project detailing a 5,900 sf gravel parking area expansion. The new parking lot is located adjacent to the north boundary of Kaniksu Health's existing lot and sloped to drain water in a southerly direction (onto the existing paved lot). The east edge of the existing parking lot includes concrete curb and gutter, which collects runoff and directs it through curb inlets and into an existing grassy swale.

The total impervious area at the site is currently 35,350 sf, which includes the new parking expansion, existing parking lot, sidewalks, and building roof top. This area generates 1,473 cf of water volume considering the first half inch of runoff. The existing storm water swale currently has a total capacity of approximately 5,770 cf, which is more than enough to retain the first half inch.

As described in the attached storm water drainage report prepared in 2005, the storm water swale was originally designed to contain runoff from a 25-year, 24-hour storm based on 35,000 sf of impervious area. Not all of the parking lot was constructed as initially designed. Hence, the current net increase in area as a result of the new gravel lot is 350 sf. Based on 35,350 sf of impervious area, the minimum swale volume is now 45,560 cf (using the same 2005 design methodology). The actual swale volume of 5,770 exceeds this volume.

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Spokane Office - 400 South Jefferson Avenue, Suite 452, Spokane, WA 99204 (509)747-5794

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Please feel free to contact me if you have any questions.

Sincerely,

JAMES A. SEWELL & ASSOCIATES, LLC

By  \_\_\_\_\_  
B. Scott Brown, PE

cc: Lance Katana, maintenance@kaniksuhealthservices.org

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