## WESTERN PACIFIC ENGINEERING & SURVEY

PIONEER WAY PROFESSIONAL CENTER 1328 E. HUNTER PLACE MOSES LAKE, WASHINGTON 98837 OFFICE: (509) 765-1028 FAX: (509) 765-1298

August 1, 2019

LCU, Inc. Attn: Pat Deneen P.O. Box 394 Cle Elum, Washington 98922

**SUBJECT:** Stormwater Management Plan for Phase IV of the Palomino Major Plat located in Ellensburg, Washington.

WPES Project No. 18540

Dear Mr. Deneen:

The purpose of this letter is to outline the stormwater management plan for Phase IV of the Palomino Major Plat in Ellensburg, Washington. The scope of Phase IV of the Palomino Major Plat development, includes the construction of Dapple Gray Way to service 45 additional residential lots. It is expected that each of the lots will contain newly constructed single family homes. The development is located approximately three miles northwest of downtown Ellensburg, Washington. The site can be accessed to the northwest from Bowers Road or from the southeast from Reecer Creek Road. More particularly, the site is located in the Northwest quarter of Section 27, Township 18 North. Range 18 East, W.M., on Kittitas County's Tax Parcel No. 491033

The area in which the Palomino Fields Development is located, is known to have seasonal high ground water during the summer months. Due to the high groundwater, the traditional trenches and swales used to manage stormwater runoff are highly unlikely to function properly. Problems with the high ground water were encountered during the construction of Phase I of this development. At that time, we worked closely with Kittitas County to come up with a solution that would best manage the stormwater runoff from this development. As a result, the road design for this development calls for raising the road bed above the existing native grade. In raising grade of the road, the stormwater will be able to run off the roadway. In order to handle the runoff from the roadway, as well as the lots themselves, the area located along the roadbed will be reserved to be used as infiltration areas. By minimizing compaction and allowing only drought resistant low growing grasses to be planted in these infiltration areas, the stormwater runoff will be able to properly infiltrate into the ground.

Attached to this letter is an exhibit showing a typical cross section of the stormwater infiltration areas located along the roadway. Within the infiltration area, one foot tall rock check dams will be installed at every foot of vertical grade drop. These check dams are intended to decrease the stormwater flow, minimize channel scour, and promote deposit of sediment. BMP C207, of the *Eastern Washington Stormwater Management Manual*, published by the Washington State Department of Ecology, shall

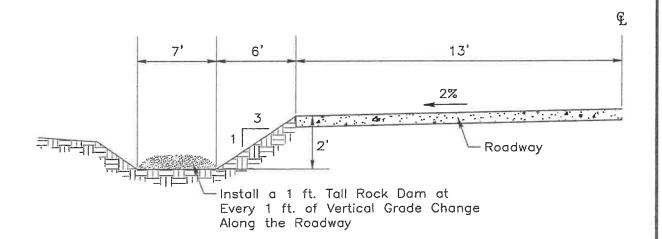
be followed during the construction of the check dams. As you know, you will also be required to follow all Washington Department of Ecology and Kittitas County Stormwater Standards during the construction of this development.

Thank you for allowing us to serve your engineering needs. If you have any further questions, please feel free to contact our office.

Sincerely,

Nathaniel D. Nofziger, P.E. WESTERN PACIFIC ENGINEERING & SURVEY 1328 E. Hunter Place Moses Lake, Washington 98837 (509) 765-1023





## NOTES:

- 1. The Roadway shall be built up from the native grade. Stormwater collection areas shall not be dug out, or below native grade.
- 2. Drought resistant, low growing grasses shall be planted in the stormwater collection areas.



1328 East Hunter Place Moses Lake, WA

## PALOMINO MAJOR PLAT

Stormwater Exhibit Ellensburg, Washington

DRAWN BY: BNO CHECKED BY: NDN DATE: 07/2019 WPE PROJECT #: 18541

Scale: 1" = N/APLATE NO.: 01

