



Preliminary Water Flow Analysis

Project Name: **Transcascadia Excursions** Date: **9/27/2021**
 Subject: **Preliminary Water Flow Analysis** AV Job Number: **211487**
 Attention: **Blair Banker**

Address: 47419 Westoak Rd., Westfir, OR 97492
 Taxlot: 2135074000119, 2135074000129

WATER FLOW ANALYSIS

The existing site is made up of two separate adjacent tax lots 2135074000119 and 2135074000129 in Westfir, OR with a combined size of 7.01 Acres. There is one existing structure on the site. The future development plans to have a common area bathroom for the campsite containing 6 toilets, 2 urinals, 6 showers, 2 sinks and 5 hose bibs and the future restaurant plans to have 1 toilet, 2 sinks and a dishwasher. These fixtures combine have a total fixture unit value of 54.5. There is an existing 8" water main in Westoak Road with a 2" line running to the site under the undeveloped 1st Street. The pressure in the 2" line is between 65 and 70 psi. Assuming a 2" water service to the future site and 400 LF of 2" water pipe the flow can handle a total fixture unit value of 124. The sites 54.5 total fixture unit value is well under the max of 124 so the existing 2" main will be sufficient to serve the future development.

TABLE 1: CAMPSITE FIXTURE UNIT VALUES

CAMPSITE RESTROOM	FIXTURE	QTY	FIXTURE VALUE	TOTAL F.U. VALUE	INDIV. METER
	TOILET	6	2.5	15	
	URINAL	2	2	4	
	SHOWER	6	2	12	
	SINK	2	2	4	
	HOSE BIB	5	2.5	12.5	
CAMPSITE RESTROOM SUBTOTAL				47.5	2"
RESTAURANT	FIXTURE	QTY	FIXTURE VALUE	TOTAL F.U. VALUE	INDIV. METER
	TOILET	1	2.5	2.5	
	SINK	2	1.5	3	
	DISHWASHER	1	1.5	1.5	
RESTAURANT SUBTOTAL				7	2"
PROPOSED DEVELOPMENT SUBTOTAL				54.5	2"

Sincerely,

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