



# CITY OF SPOKANE WATER AND SEWER PRELIMINARY USE CALCULATIONS

PROJECT 25-4026

NAME Nolting-Strong Road

DATE 5/14/2025

ENGR TRW

**WATER**

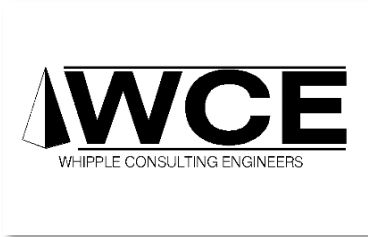
## CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD GALLONS PER DAY (GPD)

# OF UNITS	12.0						
	261.0	GALLONS PER CAPITA PER DAY					
	2.5	CAPITA PER UNIT					
	7,830.0	AVERAGE DAILY DEMAND (GPD) (ADD)					
	2.6	FACTOR FOR MAXIMUM DAILY DEMAND (GPD)(MDD)					
	20,358.0	MAXIMUM DAY DEMAND (GPD)(MDD)					
	1.7	FACTOR FOR PEAK HOUR DEMAND (GPD)(PHD)					
	34,608.6	PEAK HOUR DEMAND (GPD)(PHD)					

## CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD GALLONS PER MINUTE (GPM)

NOTE 1440= 24HR/DAY X 60MIN/HR

ADD	5.4	GPM
MDD	14.1	GPM
PHD	24.0	GPM



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## SEWER

CITY SEWER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD  
GALLONS PER DAY (GPD)

# OF UNITS	12.0						
	100.0	GALLONS PER CAPITA PER DAY					
	2.5	CAPITA PER UNIT					
	3,000.0	CAPITA FLOW W/O PEAKING FACTOR (GPD)					
	30.0	POPULATION SEE TAABLE BELOW FOR FACTOR					
	3.5	PEAKING FACTOR, SEE TABLE BELOW					
	10,500.0	PEAK FLOW (GPD)					

CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD

GALLONS PER MINUTE (GPM)

NOTE 1440= 24HR/DAY X 60MIN/HR

W/O	2.1	GPM
PEAK	7.3	GPM

Population	Peak Factor
0 to 300	3.5
300 to 400	3.0
400 to 1,000	2.5
1,000 to 4,000	2.0
4,000 to 70,000	1.5