

PAVEMENT DESIGN—CONSTANTS

	BOULEVARD & ARTERIAL	MAJOR COLLECTOR	MINOR COLLECTOR	MAJOR LOCAL RESIDENTIAL	MINOR LOCAL RESIDENTIAL & PRIVATE	TRUCK ROUTE	ALLEY
AADT	30,000	30,000	16,000	8,000	2,000	25,000	500
% AADTT	8	8	8	5	5	30	5
GROWTH RATE	5	5	5	5	2	5	2
LANE FACTOR	0.5	0.5	0.5	0.5	0.8	0.5	0.8
DESIGN EAL	4,444,844	4,444,844	2,370,584	740,812	217,744	14,000,000	54,436
R%	95	90	90	85	80	95	80
So	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Pi	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Pt	2.5	2.4	2.4	2.3	2.2	2.5	2.2
Δ PSI	1.7	1.8	1.8	1.9	2.0	1.7	2.0
MIN. DEPTH HMA	6"	6"	5"	3"	3"	8"	2.5"
MIN. TOTAL DEPTH	14"	14"	14"	12"	12"	20"	9"
* { HMA CSTC BALLAST OR CRUSHED BASE COURSE COMMERCIAL CONCRETE CRUSHED BASE COURSE OR WELL GRADED SAND	6"	6"	6"	4"	4"	8"	3"
	2"	2"	2"	2"	2"	2"	2"
	31"	27"	22"	21"	13"	28"	11"
	22"	19"	16"	15"	9"	23"	8"
		CONCRETE STREETS ARE PERMITTED. PROVIDE AASHTO DESIGN CALCULATIONS.					
							1"

* STREET STRUCTURE REQUIRED IN LIEU OF DESIGN BASED ON FIELD VERIFIED "R" VALUE

CITY OF TUMWATER, WASHINGTON DEPT. OF PUBLIC WORKS				
PAVEMENT DESIGN				
APPROVED BY:				DWG. NO.
CITY ENGINEER				ST-2
DES. PW	DWG. BY PW	CK'D BY MW	DATE JAN. 2015	NOT TO SCALE