PRETX – PRETREATMENT FOR GREEN INFRASTRUCTURE (GI) PRACTI <u>CES</u>										
MODELS/SIZES	APPLICATION	INSIDE DIMENSIONS (WXLXH) - FT	TYPICAL DROP FROM EDGE OF PAVEMENT TO OUTLET SIDE	PEAK CONVEYANCE CAPACITY – CFS*	RECOMMENDED IMPERVIOUS DRAINAGE AREA**					
PRETX-CURB										
2.5 FT MODEL	At the curb face/curb inlet opening	2.5X2.5X3.17	10"	3.5 CFS <sup>A</sup>	Up to 0.5 ACRE					
4 FT MODEL	At the curb face/curb inlet opening	4X4X3.17	10"	5.2 CFS <sup>A</sup>	Up to 1.0 ACRE					
4 FT MODEL - Double	At the curb face/curb inlet opening	4X4X3.17 (1) 4X4X3.17 (2)	10"	10.4 CFS <sup>A</sup>	Up to 2.0 ACRES					
PRETX-DROP										
4 FT MODEL	Shallow pipe outlet to a above ground or below ground GI practice	4X4X4	25.5" for 12" PIPE 21" for 8" PIPE 19" for 6" PIPE	3.3 СFS <sup>в</sup> 5.4 CFS <sup>с</sup>	Up to 0.33 ACRE Up to 0.75 ACRE					
PRETX-DROP	LT									
3 FT MODEL	At the curb/horizontal grate	3X3X3	10-12"	2.8 CFS <sup>D</sup>	Up to 0.33 ACRE					

\*DEPENDS ON SEVERAL FACTORS AND ASSUMES FREE DISCHARGE CONDITIONS

\*\* DEPENDS ON SEVERAL HYDROLOGIC FACTORS INCLUDING DESIGN RECURRENCE INTERVAL (ASSUMED 50-YR) AND 24-HR RAINFALL DISTRIBUTION TYPE (I, II or III)

A – CAPACITY IS RESTRICTED BY THE CURB MOUTH AT A PONDING DEPTH EQUAL TO TOP OF CURB, CURB HEIGHT ASSUMED TO BE 6 INCHES

B – CAPACITY IS RESTRICTED BY THE 2'X2' GRATED INLET ASSUMING WEIR FLOW WITH 3 INCHES OF HEAD

C – CAPACITY IS RESTRICTED BY THE 2'X2' GRATED INLET ASSUMING ORIFICE FLOW WITH 4.5 INCHES OF HEAD

D – CAPACITY IS RESTRICTED BY A 3 SIDED RAISED LIP AROUND PERIMETER OF THE GRATE WITH APPROXIMALTEY 2 INCHES OF HEAD ABOVE THE LIP

PRETX - PRETREATMENT FOR GREEN INFRASTRUCTURE (GI) PRACTICES													
	Inside Dimensions Upstream of Sed Weir - ft			<b>(V)</b> Volume in	<b>(v)</b> Terminal Settling	<b>(T)</b> Time to	( <b>Q</b> ) Treatment Flow	Peak Conveyance	Recommended Impervious Drainage				
PRETX Model	W	L	Н		Velocity - ft/s	Jeille - 360		Capacity (CIS)	Area (acre) **				
PRETX - CURB													
2.5 FT MODEL	2.5	1.675	2.33	9.8	0.31	7.5	0.43	3.5	0.5				
4 FT MODEL	4	3	2.33	28.0	0.31	7.5	1.24	5.2	1				
4 FT MODEL Double	8	3	2.33	55.9	0.31	7.5	2.48	10.4	2				
PRETX - DROP													
4 FT MODEL	4	3.17	2.5	31.7	0.31	8	1.31	3.3	0.33				
PRETX - DROP LT													
3 FT MODEL	3	2.42	2.08	15.1	0.31	7	0.75	2.8	0.33				

H = height of the sediment weir

v calculated using Stokes Law, particle diameter assumed to be medium sand and particle density of 100 lbs/CF

 $\theta$  is set to 3 times the settling time (T)

\* Depends on several factors and assumes free discharge conditions

\*\* Depends on several hydrologic factors including design recurrence intervals (assumed 50-yr and 24-hr rainfall distribution Types I, II or III)