

Table E.3

Project	Verde River FHA	Computed	FOUNTAIN	Date	1/7/2011
Subject	Expansion and Contraction Coefficients	Checked	FOREST	Date	1/25/2011
Task	Table E.3 Supporting Information	Sheet	1	Of	10

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
1	215733.70	0.1	0.3	Default Values
2	215402.30	0.1	0.3	Default Values
3	215200.50	0.1	0.3	Default Values
4	214932.70	0.1	0.3	Default Values
5	214756.60	0.1	0.3	Default Values
6	214555.90	0.2	0.4	Transition region
7	214282.20	0.2	0.4	Transition region
8	213816.50	0.3	0.5	Reduction in cross sectional flow area
9	213550.30	0.2	0.4	Transition region
10	213311.60	0.2	0.4	Transition region
11	213216.90	0.2	0.4	Transition region
12	213018.70	0.2	0.4	Transition region
13	212907.70	0.3	0.5	Increase in cross sectional flow area
14	212693.10	0.1	0.3	Default Values
15	212373.00	0.1	0.3	Default Values
16	212059.60	0.2	0.4	Transition region
17	211625.40	0.2	0.4	Transition region
18	211260.90	0.1	0.3	Default Values
19	210937.60	0.1	0.3	Default Values
20	210682.20	0.1	0.3	Default Values
21	210461.10	0.1	0.3	Default Values
22	210220.70	0.1	0.3	Default Values
23	209708.90	0.1	0.3	Default Values
24	209381.00	0.3	0.5	Increase in cross sectional flow area
25	209280.20	0.3	0.5	Increase in cross sectional flow area
26	209160.30	0.2	0.4	Reduction in cross sectional flow area
27	208988.00	0.2	0.4	Reduction in cross sectional flow area
28	208688.60	0.5	0.7	Increase in cross sectional flow area
29	208309.50	0.5	0.7	Increase in cross sectional flow area
30	207958.10	0.3	0.8	Increase in cross sectional flow area
31	207669.90	0.2	0.6	Reduction in cross sectional flow area
32	207146.10	0.1	0.3	Default Values
33	206771.90	0.1	0.3	Default Values
34	206302.00	0.5	0.7	Increase in cross sectional flow area
35	205955.00	0.6	0.8	Increase in cross sectional flow area
36	205669.80	0.2	0.4	Increase in cross sectional flow area
37	205417.70	0.3	0.5	Increase in cross sectional flow area
38	205293.10	0.3	0.5	Increase in cross sectional flow area
39	205271.60	0.6	0.8	Increase in cross sectional flow area
40	205260.00	0.7	0.9	Reduction in cross sectional flow area
41	205196.20	0.1	0.3	Default Values
42	204992.70	0.1	0.3	Default Values
43	204907.80	0.1	0.3	Default Values
44	204737.10	0.1	0.3	Default Values
45	204470.30	0.1	0.3	Default Values
46	204145.50	0.1	0.3	Default Values
47	203977.90	0.2	0.4	Reduction in cross sectional flow area
48	203286.40	0.6	0.8	Increase in cross sectional flow area
49	202962.70	0.3	0.5	Increase in cross sectional flow area
50	202662.90	0.6	0.8	Increase in cross sectional flow area
51	202217.80	0.3	0.5	Reduction in cross sectional flow area
52	201702.80	0.5	0.7	Reduction in cross sectional flow area
53	201256.80	0.6	0.8	Reduction in cross sectional flow area
54	200951.40	0.7	0.9	Increase in cross sectional flow area
55	200688.90	0.3	0.5	Increase in cross sectional flow area

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
56	200496.20	0.4	0.6	Reduction in cross sectional flow area
57	200440.00	0.1	0.7	Reduction in cross sectional flow area
58	200335.90	0.2	0.4	Transition region
59	200285.60	0.2	0.4	Transition region
60	200259.20	0.1	0.3	Default Values
61	200194.50	0.5	0.7	Increase in cross sectional flow area
62	200026.40	0.6	0.8	Increase in cross sectional flow area
63	199812.50	0.5	0.7	Increase in cross sectional flow area
64	199737.40	0.3	0.5	Increase in cross sectional flow area
65	199492.70	0.2	0.4	Increase in cross sectional flow area
66	199347.50	0.1	0.3	Default Values
67	199262.40	0.3	0.5	Reduction in cross sectional flow area
68	199209.10	0.7	0.9	Reduction in cross sectional flow area
69	199191.9 Tuzigoot Bridge	Bridge		
70	199171.00	0.3	0.5	Increase in cross sectional flow area
71	199132.70	0.7	0.9	Reduction in cross sectional flow area
72	198827.70	0.7	0.9	Increase in cross sectional flow area
73	198344.90	0.2	0.4	Transition region
74	198157.90	0.5	0.7	Increase in cross sectional flow area
75	198007.60	0.6	0.8	Increase in cross sectional flow area
76	197896.70	0.3	0.5	Increase in cross sectional flow area
77	197762.10	0.2	0.4	Increase in cross sectional flow area
78	197600.70	0.1	0.3	Default Values
79	197124.20	0.2	0.4	Increase in cross sectional flow area
80	196627.70	0.3	0.5	Increase in cross sectional flow area
81	196449.80	0.2	0.4	Transition region
82	196359.50	0.2	0.4	Transition region
83	196207.60	0.3	0.5	Reduction in cross sectional flow area
84	195784.90	0.1	0.3	Default Values
85	195713.10	0.3	0.5	Reduction in cross sectional flow area
86	195577.40	0.7	0.9	Reduction in cross sectional flow area
87	195394.10	0.3	0.5	Reduction in cross sectional flow area
88	195329.00	0.2	0.4	Reduction in cross sectional flow area
89	195216.90	0.4	0.6	Reduction in cross sectional flow area
90	194895.30	0.3	0.5	Reduction in cross sectional flow area
91	194743.30	0.1	0.3	Default Values
92	194591.10	0.7	0.9	Increase in cross sectional flow area
93	194482.10	0.4	0.6	Increase in cross sectional flow area
94	194310.20	0.3	0.5	Increase in cross sectional flow area
95	194146.50	0.3	0.5	Increase in cross sectional flow area
96	193829.00	0.3	0.5	Increase in cross sectional flow area
97	193519.90	0.1	0.3	Increase in cross sectional flow area
98	193320.80	0.1	0.3	Increase in cross sectional flow area
99	193204.90	0.1	0.3	Increase in cross sectional flow area
100	193044.70	0.3	0.5	Reduction in cross sectional flow area
101	192841.20	0.2	0.4	Transition region
102	192638.50	0.1	0.3	Default Values
103	192228.10	0.1	0.3	Default Values
104	191712.20	0.1	0.3	Increase in cross sectional flow area
105	191221.50	0.1	0.3	Increase in cross sectional flow area
106	190854.00	0.2	0.4	Increase in cross sectional flow area
107	190456.80	0.1	0.3	Reduction in cross sectional flow area
108	190196.00	0.2	0.4	Transition region
109	190026.70	0.2	0.4	Transition region
110	189713.10	0.3	0.5	Reduction in cross sectional flow area
111	189400.60	0.4	0.6	Increase in cross sectional flow area
112	188898.00	0.7	0.9	Increase in cross sectional flow area
113	188716.10	0.3	0.5	Increase in cross sectional flow area
114	188425.90	0.2	0.4	Increase in cross sectional flow area
115	188220.20	0.2	0.4	Increase in cross sectional flow area
116	187819.60	0.2	0.4	Increase in cross sectional flow area
117	187395.50	0.2	0.4	Increase in cross sectional flow area
118	187237.80	0.1	0.3	Increase in cross sectional flow area
119	186861.10	0.1	0.3	Reduction in cross sectional flow area
120	186227.30	0.1	0.3	Reduction in cross sectional flow area
121	185714.80	0.2	0.4	Increase in cross sectional flow area
122	185496.60	0.3	0.5	Reduction in cross sectional flow area
123	185207.20	0.3	0.5	Reduction in cross sectional flow area
124	184998.10	0.4	0.6	Reduction in cross sectional flow area

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
125	184780.80	0.7	0.9	Reduction in cross sectional flow area
126	184726.00	0.3	0.5	Reduction in cross sectional flow area
127	184698.9 10th Street Brid	Bridge		
128	184665.60	0.3	0.5	Increase in cross sectional flow area
129	184587.60	0.7	0.9	Reduction in cross sectional flow area
130	184392.10	0.1	0.3	Increase in cross sectional flow area
131	183971.00	0.2	0.4	Increase in cross sectional flow area
132	183580.70	0.3	0.5	Reduction in cross sectional flow area
133	183075.70	0.3	0.5	Increase in cross sectional flow area
134	182895.60	0.3	0.5	Reduction in cross sectional flow area
135	182680.60	0.1	0.3	Increase in cross sectional flow area
136	182334.80	0.1	0.3	Default Values
137	182045.00	0.1	0.3	Default Values
138	181636.10	0.2	0.4	Transition region
139	181306.30	0.2	0.4	Transition region
140	180948.10	0.2	0.4	Transition region
141	180398.10	0.2	0.4	Transition region
142	180027.50	0.3	0.5	Increase in cross sectional flow area
143	179752.40	0.3	0.5	Increase in cross sectional flow area
144	179573.90	0.2	0.4	Increase in cross sectional flow area
145	179214.80	0.3	0.5	Increase in cross sectional flow area
146	178723.60	0.5	0.7	Increase in cross sectional flow area
147	178301.10	0.2	0.4	Increase in cross sectional flow area
148	178027.00	0.3	0.5	Increase in cross sectional flow area
149	177719.30	0.2	0.4	Increase in cross sectional flow area
150	177479.60	0.1	0.3	Default Values
151	177251.70	0.1	0.3	Default Values
152	177033.70	0.1	0.3	Default Values
153	176656.40	0.1	0.3	Default Values
154	176188.50	0.1	0.3	Default Values
155	175819.80	0.1	0.3	Default Values
156	175431.50	0.1	0.3	Default Values
157	175114.70	0.1	0.3	Default Values
158	174875.00	0.1	0.3	Default Values
159	174637.40	0.1	0.3	Default Values
160	174339.10	0.1	0.3	Default Values
161	173999.70	0.1	0.3	Default Values
162	173767.80	0.1	0.3	Default Values
163	173617.90	0.1	0.3	Default Values
164	173222.40	0.3	0.5	Increase in cross sectional flow area
165	172845.80	0.3	0.5	Increase in cross sectional flow area
166	172704.30	0.2	0.4	Transition region
167	172590.20	0.1	0.3	Default Values
168	172457.00	0.1	0.3	Default Values
169	172314.10	0.1	0.3	Default Values
170	172083.60	0.1	0.3	Default Values
171	171976.10	0.3	0.5	Reduction in cross sectional flow area
172	171926.90	0.5	0.7	Reduction in cross sectional flow area
173	171891.8 Mingus Avenue Br	Bridge		
174	171861.30	0.3	0.5	Increase in cross sectional flow area
175	171809.20	0.5	0.7	Increase in cross sectional flow area
176	171477.80	0.3	0.5	Increase in cross sectional flow area
177	171139.90	0.1	0.3	Increase in cross sectional flow area
178	170700.40	0.1	0.3	Default Values
179	170282.70	0.1	0.3	Default Values
180	170025.80	0.1	0.3	Default Values
181	169724.40	0.1	0.3	Default Values
182	169497.80	0.2	0.4	Transition region
183	169364.70	0.2	0.4	Transition region
184	169012.70	0.1	0.3	Default Values
185	168514.20	0.1	0.3	Default Values
186	167965.50	0.1	0.3	Default Values
187	167586.10	0.2	0.4	Transition region
188	167135.40	0.1	0.3	Default Values
189	166993.90	0.1	0.3	Default Values
190	166910.00	0.1	0.3	Default Values
191	166769.30	0.1	0.3	Default Values
192	166551.40	0.1	0.3	Default Values
193	166254.00	0.1	0.3	Default Values

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
194	166090.30	0.1	0.3	Default Values
195	165688.10	0.1	0.3	Default Values
196	165304.90	0.1	0.3	Default Values
197	165072.90	0.2	0.4	Transition region
198	164876.10	0.3	0.5	Increase in cross sectional flow area
199	164596.60	0.2	0.4	Transition region
200	164284.50	0.1	0.3	Default Values
201	164104.80	0.1	0.3	Default Values
202	164013.50	0.3	0.5	Reduction in cross sectional flow area
203	163963.80	0.3	0.5	Reduction in cross sectional flow area
204	163913.8 SR-89A Bridge	Bridge		
205	163863.10	0.3	0.5	Increase in cross sectional flow area
206	163761.90	0.2	0.4	Increase in cross sectional flow area
207	163517.70	0.1	0.3	Default Values
208	163153.70	0.2	0.4	Increase in cross sectional flow area
209	162862.30	0.3	0.5	Increase in cross sectional flow area
210	162612.40	0.7	0.9	Reduction in cross sectional flow area
211	162461.40	0.2	0.4	Increase in cross sectional flow area
212	162127.60	0.2	0.4	Reduction in cross sectional flow area
213	161836.40	0.3	0.5	Reduction in cross sectional flow area
214	161522.10	0.5	0.7	Increase in cross sectional flow area
215	161224.50	0.2	0.4	Increase in cross sectional flow area
216	160908.30	0.3	0.35	Increase in cross sectional flow area
217	160459.30	0.4	0.6	Increase in cross sectional flow area
218	159973.60	0.2	0.4	Increase in cross sectional flow area
219	159397.70	0.2	0.4	Increase in cross sectional flow area
220	158907.70	0.1	0.3	Default Values
221	158626.40	0.1	0.3	Default Values
222	158282.90	0.1	0.3	Default Values
223	158099.40	0.2	0.4	Increase in cross sectional flow area
224	157813.60	0.1	0.3	Default Values
225	157544.10	0.2	0.4	Increase in cross sectional flow area
226	157273.60	0.1	0.3	Default Values
227	156869.90	0.2	0.4	Transition region
228	156552.20	0.2	0.4	Transition region
229	156163.30	0.3	0.5	Increase in cross sectional flow area
230	155788.90	0.2	0.4	Transition region
231	155408.30	0.2	0.4	Transition region
232	155086.40	0.3	0.5	Reduction in cross sectional flow area
233	154699.90	0.2	0.4	Reduction in cross sectional flow area
234	154379.40	0.1	0.3	Default Values
235	154042.90	0.1	0.3	Default Values
236	153751.30	0.1	0.3	Default Values
237	153501.20	0.1	0.3	Default Values
238	153121.40	0.1	0.3	Default Values
239	153008.00	0.1	0.3	Default Values
240	152780.70	0.1	0.3	Default Values
241	152401.70	0.1	0.3	Default Values
242	152083.80	0.1	0.3	Default Values
243	151853.00	0.1	0.3	Default Values
244	151621.70	0.2	0.4	Transition region
245	151537.50	0.2	0.4	Transition region
246	151375.50	0.3	0.5	Reduction in cross sectional flow area
247	151189.10	0.2	0.4	Transition region
248	151046.80	0.2	0.4	Transition region
249	150952.80	0.1	0.3	Reduction in cross sectional flow area
250	150789.70	0.1	0.3	Default Values
251	150684.30	0.1	0.3	Default Values
252	150516.10	0.1	0.3	Default Values
253	150373.60	0.1	0.3	Default Values
254	150191.00	0.2	0.4	Reduction in cross sectional flow area
255	150047.30	0.2	0.4	Reduction in cross sectional flow area
256	149842.60	0.2	0.4	Reduction in cross sectional flow area
257	149579.90	0.3	0.5	Increase in cross sectional flow area
258	149271.00	0.2	0.4	Increase in cross sectional flow area
259	149076.30	0.2	0.34	Increase in cross sectional flow area
260	148850.50	0.2	0.4	Increase in cross sectional flow area
261	148688.00	0.2	0.4	Transition region
262	148497.80	0.1	0.3	Default Values

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
263	148348.40	0.1	0.3	Default Values
264	148164.90	0.1	0.3	Default Values
265	147992.80	0.1	0.3	Default Values
266	147687.00	0.1	0.3	Default Values
267	147355.20	0.2	0.4	Transition region
268	147176.80	0.2	0.4	Inrease in cross sectional flow area
269	146910.00	0.2	0.4	Inrease in cross sectional flow area
270	146620.80	0.2	0.4	Inrease in cross sectional flow area
271	146224.00	0.2	0.4	Inrease in cross sectional flow area
272	145805.50	0.2	0.4	Inrease in cross sectional flow area
273	145366.80	0.2	0.4	Transition region
274	144879.70	0.2	0.4	Reduction in cross sectional flow area
275	144451.10	0.2	0.4	Reduction in cross sectional flow area
276	143838.80	0.2	0.4	Reduction in cross sectional flow area
277	143308.60	0.3	0.5	Reduction in cross sectional flow area
278	142829.70	0.2	0.4	Transition region
279	142580.50	0.3	0.5	Inrease in cross sectional flow area
280	142084.30	0.5	0.7	Inrease in cross sectional flow area
281	141806.50	0.3	0.5	Reduction in cross sectional flow area
282	141334.70	0.1	0.3	Reduction in cross sectional flow area
283	140949.40	0.1	0.3	Default Values
284	140677.00	0.1	0.3	Default Values
285	140351.60	0.2	0.4	Inrease in cross sectional flow area
286	139944.80	0.3	0.5	Reduction in cross sectional flow area
287	139687.90	0.2	0.4	Inrease in cross sectional flow area
288	139462.10	0.2	0.4	Reduction in cross sectional flow area
289	139147.20	0.2	0.4	Reduction in cross sectional flow area
290	138761.70	0.2	0.4	Transition region
291	138308.60	0.3	0.5	Inrease in cross sectional flow area
292	137790.10	0.7	0.9	Reduction in cross sectional flow area
293	137444.70	0.2	0.4	Inrease in cross sectional flow area
294	137074.50	0.2	0.4	Inrease in cross sectional flow area
295	136726.70	0.3	0.5	Reduction in cross sectional flow area
296	136266.00	0.1	0.3	Default Values
297	136128.80	0.2	0.4	Transition region
298	135723.30	0.3	0.5	Reduction in cross sectional flow area
299	135392.10	0.3	0.5	Reduction in cross sectional flow area
300	134908.80	0.1	0.3	Reduction in cross sectional flow area
301	134589.80	0.1	0.3	Reduction in cross sectional flow area
302	134154.70	0.1	0.3	Default Values
303	133830.90	0.1	0.3	Default Values
304	133488.00	0.1	0.3	Default Values
305	132939.50	0.2	0.4	Inrease in cross sectional flow area
306	132395.70	0.2	0.4	Inrease in cross sectional flow area
307	131998.10	0.2	0.4	Inrease in cross sectional flow area
308	131574.60	0.1	0.3	Default Values
309	131246.90	0.1	0.3	Default Values
310	130968.30	0.1	0.3	Default Values
311	130605.60	0.1	0.3	Default Values
312	130095.00	0.1	0.3	Default Values
313	129896.30	0.1	0.3	Default Values
314	129604.00	0.1	0.3	Default Values
315	129448.50	0.3	0.5	Inrease in cross sectional flow area
316	129030.60	0.3	0.5	Reduction in cross sectional flow area
317	128835.70	0.2	0.4	Reduction in cross sectional flow area
318	128432.70	0.1	0.3	Default Values
319	128053.00	0.1	0.3	Default Values
320	127728.30	0.1	0.3	Default Values
321	127289.70	0.1	0.3	Default Values
322	126997.50	0.1	0.3	Default Values
323	126797.80	0.5	0.7	Inrease in cross sectional flow area
324	126186.90	0.5	0.7	Inrease in cross sectional flow area
325	125844.50	0.3	0.5	Inrease in cross sectional flow area
326	125673.90	0.2	0.4	Transition region
327	125491.70	0.1	0.3	Default Values
328	125272.90	0.2	0.4	Reduction in cross sectional flow area
329	125050.20	0.1	0.3	Reduction in cross sectional flow area
330	124817.50	0.1	0.3	Reduction in cross sectional flow area
331	124451.40	0.1	0.3	Reduction in cross sectional flow area

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
332	123955.60	0.1	0.3	Default Values
333	123458.20	0.1	0.3	Default Values
334	122970.90	0.2	0.4	Increase in cross sectional flow area
335	122469.20	0.1	0.3	Increase in cross sectional flow area
336	122023.10	0.1	0.3	Default Values
337	121420.10	0.1	0.3	Default Values
338	120975.90	0.1	0.3	Default Values
339	120683.50	0.1	0.3	Default Values
340	120492.40	0.1	0.3	Default Values
341	120129.70	0.1	0.3	Default Values
342	119644.50	0.1	0.3	Default Values
343	119433.10	0.1	0.3	Default Values
344	119182.90	0.1	0.3	Default Values
345	118746.10	0.1	0.3	Default Values
346	118663.00	0.1	0.3	Default Values
347	118530.10	0.2	0.4	Reduction in cross sectional flow area
348	118122.80	0.1	0.3	Default Values
349	117662.90	0.1	0.3	Default Values
350	117305.50	0.1	0.3	Default Values
351	116637.40	0.1	0.3	Default Values
352	116451.90	0.1	0.3	Default Values
353	116237.10	0.1	0.3	Default Values
354	116039.10	0.1	0.3	Default Values
355	115878.10	0.1	0.3	Default Values
356	115739.40	0.1	0.3	Default Values
357	115512.70	0.1	0.3	Default Values
358	115155.80	0.1	0.3	Default Values
359	114664.00	0.1	0.3	Default Values
360	114154.40	0.1	0.3	Default Values
361	113665.70	0.2	0.4	Reduction in cross sectional flow area
362	113289.00	0.1	0.3	Default Values
363	112995.30	0.3	0.5	Reduction in cross sectional flow area
364	112657.80	0.2	0.4	Increase in cross sectional flow area
365	112227.40	0.1	0.3	Default Values
366	111773.50	0.1	0.3	Default Values
367	111488.90	0.1	0.3	Default Values
368	110804.60	0.2	0.4	Increase in cross sectional flow area
369	110292.70	0.1	0.3	Default Values
370	109943.00	0.1	0.3	Default Values
371	109434.60	0.2	0.4	Reduction in cross sectional flow area
372	109045.90	0.1	0.3	Default Values
373	108804.40	0.1	0.3	Default Values
374	108481.10	0.2	0.4	Increase in cross sectional flow area
375	108023.10	0.2	0.4	Increase in cross sectional flow area
376	107570.80	0.2	0.4	Increase in cross sectional flow area
377	107126.10	0.2	0.4	Transition region
378	106734.80	0.3	0.5	Increase in cross sectional flow area
379	106408.70	0.3	0.5	Reduction in cross sectional flow area
380	106165.10	0.1	0.3	Default Values
381	105745.90	0.1	0.3	Default Values
382	105259.50	0.1	0.3	Default Values
383	104770.00	0.1	0.3	Default Values
384	104541.80	0.1	0.3	Default Values
385	104265.50	0.1	0.3	Default Values
386	103882.00	0.1	0.3	Default Values
387	103230.20	0.1	0.3	Default Values
388	102919.30	0.1	0.3	Default Values
389	102691.70	0.1	0.3	Default Values
390	102339.40	0.3	0.5	Increase in cross sectional flow area
391	101861.00	0.7	0.9	Reduction in cross sectional flow area
392	101583.70	0.5	0.7	Reduction in cross sectional flow area
393	101094.70	0.4	0.6	Increase in cross sectional flow area
394	100867.90	0.2	0.4	Increase in cross sectional flow area
395	100701.40	0.1	0.3	Default Values
396	100374.50	0.3	0.5	Reduction in cross sectional flow area
397	100062.30	0.2	0.4	Increase in cross sectional flow area
398	99816.95	0.2	0.4	Transition region
399	99535.32	0.1	0.3	Default Values
400	99120.59	0.1	0.3	Default Values

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
401	98803.39	0.2	0.4	Inrease in cross sectional flow area
402	98497.57	0.1	0.3	Default Values
403	98236.61	0.1	0.3	Default Values
404	97936.94	0.1	0.3	Default Values
405	97495.43	0.1	0.3	Default Values
406	97290.14	0.3	0.5	Inrease in cross sectional flow area
407	97097.54	0.3	0.5	Inrease in cross sectional flow area
408	96632.78	0.1	0.3	Default Values
409	96285.73	0.1	0.3	Default Values
410	96021.03	0.1	0.3	Default Values
411	95717.03	0.1	0.3	Default Values
412	95237.35	0.1	0.3	Default Values
413	94807.49	0.5	0.7	Reduction in cross sectional flow area
414	94387.85	0.5	0.7	Reduction in cross sectional flow area
415	93760.39	0.2	0.4	Transition region
416	93334.21	0.2	0.4	Transition region
417	92800.42	0.3	0.5	Inrease in cross sectional flow area
418	92178.41	0.3	0.5	Reduction in cross sectional flow area
419	91688.68	0.2	0.4	Reduction in cross sectional flow area
420	91018.15	0.2	0.4	Reduction in cross sectional flow area
421	90216.51	0.2	0.4	Reduction in cross sectional flow area
422	89638.64	0.3	0.5	Reduction in cross sectional flow area
423	89049.18	0.5	0.7	Inrease in cross sectional flow area
424	88665.22	0.3	0.5	Reduction in cross sectional flow area
425	88480.68	0.3	0.5	Reduction in cross sectional flow area
426	87968.87	0.3	0.5	Inrease in cross sectional flow area
427	87650.89	0.3	0.5	Reduction in cross sectional flow area
428	87424.81	0.3	0.5	Inrease in cross sectional flow area
429	87171.39	0.2	0.4	Inrease in cross sectional flow area
430	86692.29	0.2	0.4	Inrease in cross sectional flow area
431	86307.67	0.1	0.3	Default Values
432	85944.17	0.1	0.3	Default Values
433	85477.47	0.1	0.3	Default Values
434	84927.79	0.1	0.3	Default Values
435	84524.18	0.1	0.3	Default Values
436	84053.85	0.1	0.3	Default Values
437	83513.39	0.1	0.3	Default Values
438	83090.53	0.1	0.3	Default Values
439	82836.90	0.1	0.3	Default Values
440	82230.19	0.1	0.3	Default Values
441	81903.41	0.1	0.3	Default Values
442	81483.22	0.2	0.4	Inrease in cross sectional flow area
443	80989.89	0.1	0.3	Default Values
444	80572.25	0.2	0.4	Inrease in cross sectional flow area
445	80312.63	0.1	0.3	Default Values
446	80077.81	0.1	0.3	Default Values
447	79725.40	0.1	0.3	Default Values
448	79630.17	0.5	0.7	Inrease in cross sectional flow area
449	79080.61	0.3	0.5	Inrease in cross sectional flow area
450	78813.14	0.3	0.5	Inrease in cross sectional flow area
451	78431.57	0.1	0.3	Default Values
452	78126.85	0.1	0.3	Default Values
453	77692.00	0.1	0.3	Default Values
454	77691.89 17A	Lat Struct		
455	77324.42	0.1	0.3	Default Values
456	77324.29 17B	Lat Struct		
457	76863.45	0.2	0.4	Default Values
458	76863.29 17C	Lat Struct		
459	76405.17	0.2	0.3	Default Values
460	76405.00 17D	Lat Struct		
461	75904.10	0.2	0.4	Reduction in cross sectional flow area
462	75904.00 17E	Lat Struct		
463	75464.65	0.2	0.4	Default Values
464	75464.54 17F	Lat Struct		
465	75058.61	0.2	0.4	Reduction in cross sectional flow area
466	75058.50 17G	Lat Struct		
467	74724.05	0.2	0.4	Reduction in cross sectional flow area
468	74723.95 17H	Lat Struct		
469	74321.89	0.2	0.4	Reduction in cross sectional flow area

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
470	74321.78 17I	Lat Struct		
471	74037.09	0.2	0.4	Reduction in cross sectional flow area
472	74036.99 17J	Lat Struct		
473	73895.66	0.3	0.5	Default Values
474	73807.95	0.3	0.5	Default Values
475	73767.00 I-17 SB Bridge	Bridge		
476	73734.02	0.1	0.3	Default Values
477	73713.32	0.1	0.3	Default Values
478	73687.03	0.1	0.3	Default Values
479	73666.80	0.1	0.3	Default Values
480	73629.60 I-17 NB Bridge	Bridge		
481	73612.59	0.4	0.6	Default Values
482	73607.03	0.4	0.6	Default Values
483	73506.46	0.4	0.6	Increase in cross sectional flow area
484	73469.10	0.4	0.6	Increase in cross sectional flow area
485	73403.62	0.3	0.5	Increase in cross sectional flow area
486	73020.80	0.1	0.3	Increase in cross sectional flow area
487	72672.32	0.1	0.3	Increase in cross sectional flow area
488	72233.34	0.1	0.3	Default Values
489	71764.40	0.1	0.3	Increase in cross sectional flow area
490	71258.49	0.1	0.3	Default Values
491	70768.67	0.1	0.3	Default Values
492	70302.70	0.1	0.3	Default Values
493	70004.64	0.1	0.3	Default Values
494	69698.53	0.1	0.3	Default Values
495	68860.00	0.3	0.5	Reduction in cross sectional flow area
496	68577.15	0.2	0.4	Increase in cross sectional flow area
497	68269.69	0.2	0.4	Increase in cross sectional flow area
498	67663.42	0.2	0.4	Increase in cross sectional flow area
499	67221.95	0.1	0.3	Default Values
500	66955.95	0.1	0.3	Default Values
501	66297.05	0.1	0.3	Default Values
502	65938.19	0.1	0.3	Default Values
503	65486.80	0.1	0.3	Default Values
504	64841.44	0.1	0.3	Default Values
505	64228.18	0.1	0.3	Default Values
506	63741.35	0.1	0.3	Default Values
507	63674.71	0.3	0.5	Increase in cross sectional flow area
508	63569.02	0.2	0.4	Increase in cross sectional flow area
509	63409.23	0.1	0.3	Reduction in cross sectional flow area
510	63336.84	0.3	0.5	Reduction in cross sectional flow area
511	63308.31 Black Bridge	Bridge		
512	63277.32	0.3	0.5	Increase in cross sectional flow area
513	63202.94	0.3	0.5	Increase in cross sectional flow area
514	62213.77	0.2	0.4	Increase in cross sectional flow area
515	61511.35	0.2	0.4	Increase in cross sectional flow area
516	61017.64	0.1	0.3	Default Values
517	60487.82	0.1	0.3	Default Values
518	59949.97	0.1	0.3	Default Values
519	59695.28	0.1	0.3	Default Values
520	59473.20	0.1	0.3	Default Values
521	59160.50	0.1	0.3	Default Values
522	58859.59	0.1	0.3	Default Values
523	58499.82	0.1	0.3	Default Values
524	58279.70	0.1	0.3	Default Values
525	57785.39	0.1	0.3	Default Values
526	57353.37	0.1	0.3	Default Values
527	56860.00	0.1	0.3	Default Values
528	56388.94	0.3	0.5	Increase in cross sectional flow area
529	55891.60	0.1	0.3	Default Values
530	55402.60	0.1	0.3	Default Values
531	55033.88	0.1	0.3	Default Values
532	54842.93	0.2	0.4	Increase in cross sectional flow area
533	54432.96	0.1	0.3	Default Values
534	54076.29	0.2	0.4	Transition region
535	53733.41	0.1	0.3	Default Values
536	53223.54	0.1	0.3	Default Values
537	52724.35	0.2	0.4	Transition region
538	52443.73	0.3	0.5	Increase in cross sectional flow area

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
539	52059.18	0.2	0.4	Increase in cross sectional flow area
540	51727.17	0.1	0.3	Default Values
541	51436.45	0.1	0.3	Default Values
542	51026.23	0.1	0.3	Default Values
543	50978.61	0.3	0.5	Reduction in cross sectional flow area
544	50923.46 SR-260 Bridge	Bridge		
545	50866.96	0.3	0.5	Increase in cross sectional flow area
546	50819.41	0.1	0.3	Default Values
547	50395.21	0.4	0.6	Increase in cross sectional flow area
548	50008.70	0.4	0.6	Reduction in cross sectional flow area
549	49540.32	0.2	0.4	Reduction in cross sectional flow area
550	49183.14	0.1	0.3	Default Values
551	48826.27	0.2	0.4	Reduction in cross sectional flow area
552	48322.08	0.2	0.4	Reduction in cross sectional flow area
553	47828.98	0.3	0.5	Increase in cross sectional flow area
554	47444.35	0.1	0.3	Default Values
555	47085.07	0.2	0.4	Reduction in cross sectional flow area
556	46480.89	0.3	0.5	Increase in cross sectional flow area
557	45731.89	0.1	0.3	Increase in cross sectional flow area
558	45248.06	0.1	0.3	Default Values
559	44764.16	0.1	0.3	Default Values
560	44420.16	0.1	0.3	Default Values
561	44209.12	0.2	0.4	Increase in cross sectional flow area
562	42547.56	0.1	0.3	Default Values
563	42013.95	0.1	0.3	Default Values
564	41583.91	0.1	0.3	Default Values
565	41226.21	0.1	0.3	Default Values
566	40741.45	0.1	0.3	Default Values
567	40235.74	0.3	0.5	Increase in cross sectional flow area
568	39694.69	0.1	0.3	Default Values
569	39294.37	0.1	0.3	Default Values
570	38740.89	0.1	0.3	Default Values
571	38252.30	0.1	0.3	Default Values
572	37990.47	0.2	0.4	Reduction in cross sectional flow area
573	37655.05	0.3	0.5	Reduction in cross sectional flow area
574	37270.13	0.3	0.5	Reduction in cross sectional flow area
575	36909.16	0.5	0.7	Reduction in cross sectional flow area
576	36666.93	0.8	0.8	Increase in cross sectional flow area
577	36220.29	0.1	0.3	Default Values
578	35818.15	0.1	0.3	Default Values
579	35340.37	0.1	0.3	Default Values
580	35018.50	0.1	0.3	Default Values
581	34640.28	0.1	0.3	Default Values
582	34314.01	0.1	0.3	Default Values
583	34064.00	0.1	0.3	Default Values
584	33621.80	0.3	0.5	Reduction in cross sectional flow area
585	33266.89	0.2	0.4	Transition region
586	32966.35	0.3	0.5	Increase in cross sectional flow area
587	32647.61	0.1	0.3	Default Values
588	32287.80	0.1	0.3	Default Values
589	31895.43	0.2	0.4	Increase in cross sectional flow area
590	31531.97	0.1	0.3	Default Values
591	31217.33	0.1	0.3	Default Values
592	30825.11	0.1	0.3	Default Values
593	30589.85	0.1	0.3	Default Values
594	30248.94	0.1	0.3	Default Values
595	29831.25	0.2	0.4	Reduction in cross sectional flow area
596	28931.14	0.2	0.4	Reduction in cross sectional flow area
597	28414.06	0.1	0.3	Default Values
598	28054.16	0.3	0.5	Reduction in cross sectional flow area
599	27603.03	0.5	0.7	Reduction in cross sectional flow area
600	27244.60	0.1	0.3	Default Values
601	26902.70	0.1	0.3	Default Values
602	26588.77	0.2	0.4	Increase in cross sectional flow area
603	26336.00	0.3	0.5	Increase in cross sectional flow area
604	25933.97	0.3	0.5	Increase in cross sectional flow area
605	25614.47	0.1	0.3	Default Values
606	25233.13	0.1	0.3	Default Values
607	24840.10	0.1	0.3	Default Values

Numerical Count	River Station	Contraction	Expansion	Supporting Information for Values Selected
608	24557.45	0.1	0.3	Default Values
609	24201.12	0.1	0.3	Default Values
610	23758.81	0.3	0.5	Reduction in cross sectional flow area
611	23338.44	0.3	0.5	Inrease in cross sectional flow area
612	22957.25	0.1	0.3	Default Values
613	22671.91	0.1	0.3	Default Values
614	22322.48	0.1	0.3	Default Values
615	22131.87	0.1	0.3	Default Values
616	21941.61	0.1	0.3	Default Values
617	21673.52	0.1	0.3	Default Values
618	21196.46	0.3	0.5	Inrease in cross sectional flow area
619	20712.48	0.1	0.3	Default Values
620	20293.12	0.3	0.5	Inrease in cross sectional flow area
621	19947.81	0.1	0.3	Default Values
622	19326.83	0.3	0.5	Reduction in cross sectional flow area
623	19010.64	0.1	0.3	Default Values
624	18510.23	0.3	0.5	Reduction in cross sectional flow area
625	17921.08	0.1	0.3	Default Values
626	17404.51	0.1	0.3	Default Values
627	17000.26	0.3	0.5	Inrease in cross sectional flow area
628	16626.20	0.1	0.3	Default Values
629	16245.61	0.2	0.4	Inrease in cross sectional flow area
630	15768.70	0.2	0.4	Inrease in cross sectional flow area
631	15292.91	0.1	0.3	Default Values
632	15003.00	0.1	0.3	Default Values
633	14663.14	0.1	0.3	Default Values
634	14237.27	0.1	0.3	Default Values
635	13749.83	0.1	0.3	Default Values
636	13295.00	0.1	0.3	Default Values
637	12889.37	0.1	0.3	Default Values
638	12561.79	0.1	0.3	Default Values
639	12272.02	0.1	0.3	Default Values
640	11811.99	0.1	0.3	Default Values
641	11489.68	0.1	0.3	Default Values
642	11094.83	0.1	0.3	Default Values
643	10703.42	0.1	0.3	Default Values
644	10155.36	0.1	0.3	Default Values
645	9759.63	0.1	0.3	Default Values
646	9353.37	0.1	0.3	Default Values
647	8918.82	0.1	0.3	Default Values
648	8440.84	0.1	0.3	Default Values
649	7931.42	0.2	0.4	Inrease in cross sectional flow area
650	7573.39	0.2	0.4	Transition region
651	7163.09	0.2	0.4	Inrease in cross sectional flow area
652	6668.65	0.1	0.3	Default Values
653	6235.18	0.1	0.3	Default Values
654	5779.03	0.1	0.3	Default Values
655	5275.38	0.2	0.4	Reduction in cross sectional flow area
656	4896.46	0.8	0.8	Inrease in cross sectional flow area
657	4403.22	0.3	0.5	Inrease in cross sectional flow area
658	3908.16	0.1	0.3	Default Values
659	3574.73	0.1	0.3	Default Values
660	3079.99	0.3	0.5	Inrease in cross sectional flow area
661	2604.07	0.1	0.3	Default Values
662	2218.25	0.1	0.3	Default Values
663	1692.83	0.1	0.3	Default Values
664	1254.99	0.1	0.3	Default Values
665	906.25	0.1	0.3	Default Values
666	671.51	0.1	0.3	Default Values
667	454.95	0.3	0.5	Inrease in cross sectional flow area
668	339.02	0.1	0.3	Default Values
669	125.25	0.1	0.3	Default Values
670	2.86	0.1	0.3	Default Values