

B	DRAWING NUMBER S9878	SIZE A	SCALE: NONE	DATE: 6-5-14	APPROVED BY: MRD	CHECKED BY: MRD	DRAWN BY: TBW	FIGURE NUMBER 9878	SMITH® JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 888-377-7818 www.jrsmith.com					ASPE MEMBER OF:		PDI INSTITUTE		LOCATION	
									10" WIDE 9878 POWERDRAIN® DRAIN SYSTEM w/INTEGRAL DUCTILE IRON EDGE RAIL										
WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA																			
										REGULARLY FURNISHED: 1 meter (3.28') Precast Polymer Concrete Channel of Interlocking Design with a Built in Slope of .5%. Channel has an Integral Ductile Iron Edge Rail with Radiused Bottom and 8" Internal Width. Supplied with Secured Ductile Iron Grates. Note: This trench drainage system is designed for "ON GRADE APPLICATIONS ONLY", as there are no provisions for a flashing flange or flashing clamp. Note: Catch Basins Come Standard with Polymer Concrete Top, Powerlok Ductile Iron Grate, Plastic Bucket, and Plastic Base. 631 Basins also come with Plastic Riser.									
REV.		DATE		DESCRIPTION		BY		CKD. BY		WEIGHT POUNDS		VOLUME CUBIC FEET		FIGURE NUMBER 9878					

B	S9878-BS	DRAWING NUMBER	SIZE	A	SCALE:	NONE	DATE:	2-13-14	APPROVED BY:	MRD	CHECKED BY:	MRD	DRAWN BY:	TBW	FIGURE NUMBER	JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 888-377-7818 www.jrsmith.com MEMBER OF: LOCATION																																																																																																																																																																																																																																																																																																															
																10" WIDE 9878 POWERDRAIN® DRAIN SYSTEM w/INTEGRAL DUCTILE IRON EDGE RAIL																																																																																																																																																																																																																																																																																																															
Extra Heavy Duty, EN 1433 Load Class E: 135,00 lbs - 2323 psi. For commercial solid tire forklift traffic patterns, forklifts and impacts from steel struts or metal wheels. * ☐ 9878-ADAG Powerlok ADA - 1 3/8 x 7/16 longitudinal ductile iron slotted grate (56.00 sq in.) Extra Heavy Duty, EN 1433 Load Class F: 202,320 lbs - 4182 psi. For aircraft runways, docks, heavy fork trucks, and heavy wheel loads. * ☐ 9878-SLG Powerlok Slotted - 3 13/16 x 7/16 ductile iron slotted grate (71.00 sq. in.) *Available With Powerlok Locking Devices Only ▲ 1/2 Meter In Length DEEP END DEPTHS 9878 SYSTEM <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Channel Number</th> <th>Deep End Invert Inch</th> <th>mm</th> <th>Slope</th> <th>Slotted Weight Lbs.</th> <th>ADA Weight Lbs.</th> </tr> </thead> <tbody> <tr><td>9878-00</td><td>7.87</td><td>200</td><td>0.0%</td><td>141.2</td><td>133.7</td></tr> <tr><td>9878-001</td><td>8.07</td><td>205</td><td>0.5%</td><td>141.2</td><td>133.7</td></tr> <tr><td>9878-002</td><td>8.27</td><td>210</td><td>0.5%</td><td>142.3</td><td>134.8</td></tr> <tr><td>9878-003</td><td>8.46</td><td>215</td><td>0.5%</td><td>143.4</td><td>135.9</td></tr> <tr><td>9878-004</td><td>8.66</td><td>220</td><td>0.5%</td><td>144.5</td><td>137.0</td></tr> <tr><td>9878-005</td><td>8.86</td><td>225</td><td>0.5%</td><td>145.6</td><td>138.1</td></tr> <tr><td>9878-006</td><td>9.06</td><td>230</td><td>0.5%</td><td>146.7</td><td>139.2</td></tr> <tr><td>9878-007</td><td>9.25</td><td>235</td><td>0.5%</td><td>147.8</td><td>140.3</td></tr> <tr><td>9878-008</td><td>9.45</td><td>240</td><td>0.5%</td><td>148.9</td><td>141.4</td></tr> <tr><td>9878-009</td><td>9.65</td><td>245</td><td>0.5%</td><td>150.0</td><td>142.5</td></tr> <tr><td>9878-010</td><td>9.84</td><td>250</td><td>0.5%</td><td>151.1</td><td>143.6</td></tr> <tr><td>9878-N010</td><td>9.84</td><td>250</td><td>0.0%</td><td>151.2</td><td>143.7</td></tr> <tr><td>▲ 9878-N103</td><td>9.84</td><td>250</td><td>0.0%</td><td>89.2</td><td>85.45</td></tr> <tr><td>9878-011</td><td>10.04</td><td>255</td><td>0.5%</td><td>152.2</td><td>144.7</td></tr> <tr><td>9878-012</td><td>10.24</td><td>260</td><td>0.5%</td><td>153.3</td><td>145.8</td></tr> <tr><td>9878-013</td><td>10.43</td><td>265</td><td>0.5%</td><td>154.4</td><td>146.9</td></tr> <tr><td>9878-014</td><td>10.63</td><td>270</td><td>0.5%</td><td>155.6</td><td>148.1</td></tr> <tr><td>9878-015</td><td>10.83</td><td>275</td><td>0.5%</td><td>156.7</td><td>149.2</td></tr> <tr><td>9878-016</td><td>11.02</td><td>280</td><td>0.5%</td><td>157.8</td><td>150.3</td></tr> <tr><td>9878-017</td><td>11.22</td><td>285</td><td>0.5%</td><td>158.9</td><td>151.4</td></tr> <tr><td>9878-018</td><td>11.42</td><td>290</td><td>0.5%</td><td>160.0</td><td>152.5</td></tr> <tr><td>9878-019</td><td>11.61</td><td>295</td><td>0.5%</td><td>161.1</td><td>153.6</td></tr> <tr><td>9878-020</td><td>11.81</td><td>300</td><td>0.5%</td><td>162.2</td><td>154.7</td></tr> <tr><td>9878-N020</td><td>11.81</td><td>300</td><td>0.0%</td><td>162.2</td><td>154.7</td></tr> <tr><td>▲ 9878-N203</td><td>11.81</td><td>300</td><td>0.0%</td><td>96.8</td><td>93.05</td></tr> <tr><td>9878-021</td><td>12.01</td><td>305</td><td>0.5%</td><td>163.3</td><td>155.8</td></tr> <tr><td>9878-022</td><td>12.20</td><td>310</td><td>0.5%</td><td>164.4</td><td>156.9</td></tr> <tr><td>9878-023</td><td>12.40</td><td>315</td><td>0.5%</td><td>165.5</td><td>158.0</td></tr> <tr><td>9878-024</td><td>12.60</td><td>320</td><td>0.5%</td><td>166.6</td><td>159.1</td></tr> <tr><td>9878-025</td><td>12.80</td><td>325</td><td>0.5%</td><td>167.7</td><td>160.2</td></tr> <tr><td>9878-026</td><td>12.99</td><td>330</td><td>0.5%</td><td>168.8</td><td>161.3</td></tr> <tr><td>9878-027</td><td>13.19</td><td>335</td><td>0.5%</td><td>169.9</td><td>162.4</td></tr> <tr><td>9878-028</td><td>13.39</td><td>340</td><td>0.5%</td><td>171.0</td><td>163.5</td></tr> <tr><td>9878-029</td><td>13.58</td><td>345</td><td>0.5%</td><td>172.1</td><td>164.6</td></tr> <tr><td>9878-030</td><td>13.78</td><td>350</td><td>0.5%</td><td>173.2</td><td>165.7</td></tr> <tr><td>9878-N030</td><td>13.78</td><td>350</td><td>0.0%</td><td>173.2</td><td>165.7</td></tr> <tr><td>▲ 9878-N303</td><td>13.78</td><td>350</td><td>0.0%</td><td>101.3</td><td>97.55</td></tr> <tr><td>9878-031</td><td>13.98</td><td>355</td><td>0.5%</td><td>174.4</td><td>166.9</td></tr> <tr><td>9878-032</td><td>14.17</td><td>360</td><td>0.5%</td><td>175.5</td><td>168.0</td></tr> <tr><td>9878-033</td><td>14.37</td><td>365</td><td>0.5%</td><td>176.6</td><td>169.1</td></tr> <tr><td>9878-034</td><td>14.57</td><td>370</td><td>0.5%</td><td>177.7</td><td>170.2</td></tr> <tr><td>9878-035</td><td>14.76</td><td>375</td><td>0.5%</td><td>178.8</td><td>171.3</td></tr> <tr><td>9878-036</td><td>14.96</td><td>380</td><td>0.5%</td><td>179.9</td><td>172.4</td></tr> <tr><td>9878-037</td><td>15.16</td><td>385</td><td>0.5%</td><td>181.0</td><td>173.5</td></tr> <tr><td>9878-038</td><td>15.35</td><td>390</td><td>0.5%</td><td>182.1</td><td>174.6</td></tr> <tr><td>9878-039</td><td>15.55</td><td>395</td><td>0.5%</td><td>183.2</td><td>175.7</td></tr> <tr><td>9878-040</td><td>15.75</td><td>400</td><td>0.5%</td><td>184.3</td><td>176.8</td></tr> <tr><td>9878-N040</td><td>15.75</td><td>400</td><td>0.0%</td><td>184.3</td><td>176.8</td></tr> <tr><td>▲ 9878-N403</td><td>15.75</td><td>400</td><td>0.0%</td><td>110.1</td><td>106.4</td></tr> </tbody> </table>															Channel Number	Deep End Invert Inch	mm	Slope	Slotted Weight Lbs.	ADA Weight Lbs.	9878-00	7.87	200	0.0%	141.2	133.7	9878-001	8.07	205	0.5%	141.2	133.7	9878-002	8.27	210	0.5%	142.3	134.8	9878-003	8.46	215	0.5%	143.4	135.9	9878-004	8.66	220	0.5%	144.5	137.0	9878-005	8.86	225	0.5%	145.6	138.1	9878-006	9.06	230	0.5%	146.7	139.2	9878-007	9.25	235	0.5%	147.8	140.3	9878-008	9.45	240	0.5%	148.9	141.4	9878-009	9.65	245	0.5%	150.0	142.5	9878-010	9.84	250	0.5%	151.1	143.6	9878-N010	9.84	250	0.0%	151.2	143.7	▲ 9878-N103	9.84	250	0.0%	89.2	85.45	9878-011	10.04	255	0.5%	152.2	144.7	9878-012	10.24	260	0.5%	153.3	145.8	9878-013	10.43	265	0.5%	154.4	146.9	9878-014	10.63	270	0.5%	155.6	148.1	9878-015	10.83	275	0.5%	156.7	149.2	9878-016	11.02	280	0.5%	157.8	150.3	9878-017	11.22	285	0.5%	158.9	151.4	9878-018	11.42	290	0.5%	160.0	152.5	9878-019	11.61	295	0.5%	161.1	153.6	9878-020	11.81	300	0.5%	162.2	154.7	9878-N020	11.81	300	0.0%	162.2	154.7	▲ 9878-N203	11.81	300	0.0%	96.8	93.05	9878-021	12.01	305	0.5%	163.3	155.8	9878-022	12.20	310	0.5%	164.4	156.9	9878-023	12.40	315	0.5%	165.5	158.0	9878-024	12.60	320	0.5%	166.6	159.1	9878-025	12.80	325	0.5%	167.7	160.2	9878-026	12.99	330	0.5%	168.8	161.3	9878-027	13.19	335	0.5%	169.9	162.4	9878-028	13.39	340	0.5%	171.0	163.5	9878-029	13.58	345	0.5%	172.1	164.6	9878-030	13.78	350	0.5%	173.2	165.7	9878-N030	13.78	350	0.0%	173.2	165.7	▲ 9878-N303	13.78	350	0.0%	101.3	97.55	9878-031	13.98	355	0.5%	174.4	166.9	9878-032	14.17	360	0.5%	175.5	168.0	9878-033	14.37	365	0.5%	176.6	169.1	9878-034	14.57	370	0.5%	177.7	170.2	9878-035	14.76	375	0.5%	178.8	171.3	9878-036	14.96	380	0.5%	179.9	172.4	9878-037	15.16	385	0.5%	181.0	173.5	9878-038	15.35	390	0.5%	182.1	174.6	9878-039	15.55	395	0.5%	183.2	175.7	9878-040	15.75	400	0.5%	184.3	176.8	9878-N040	15.75	400	0.0%	184.3	176.8	▲ 9878-N403	15.75	400	0.0%	110.1	106.4	WEIGHT POUNDS VOLUME CUBIC FEET FIGURE NUMBER 9878BS				
Channel Number	Deep End Invert Inch	mm	Slope	Slotted Weight Lbs.	ADA Weight Lbs.																																																																																																																																																																																																																																																																																																																										
9878-00	7.87	200	0.0%	141.2	133.7																																																																																																																																																																																																																																																																																																																										
9878-001	8.07	205	0.5%	141.2	133.7																																																																																																																																																																																																																																																																																																																										
9878-002	8.27	210	0.5%	142.3	134.8																																																																																																																																																																																																																																																																																																																										
9878-003	8.46	215	0.5%	143.4	135.9																																																																																																																																																																																																																																																																																																																										
9878-004	8.66	220	0.5%	144.5	137.0																																																																																																																																																																																																																																																																																																																										
9878-005	8.86	225	0.5%	145.6	138.1																																																																																																																																																																																																																																																																																																																										
9878-006	9.06	230	0.5%	146.7	139.2																																																																																																																																																																																																																																																																																																																										
9878-007	9.25	235	0.5%	147.8	140.3																																																																																																																																																																																																																																																																																																																										
9878-008	9.45	240	0.5%	148.9	141.4																																																																																																																																																																																																																																																																																																																										
9878-009	9.65	245	0.5%	150.0	142.5																																																																																																																																																																																																																																																																																																																										
9878-010	9.84	250	0.5%	151.1	143.6																																																																																																																																																																																																																																																																																																																										
9878-N010	9.84	250	0.0%	151.2	143.7																																																																																																																																																																																																																																																																																																																										
▲ 9878-N103	9.84	250	0.0%	89.2	85.45																																																																																																																																																																																																																																																																																																																										
9878-011	10.04	255	0.5%	152.2	144.7																																																																																																																																																																																																																																																																																																																										
9878-012	10.24	260	0.5%	153.3	145.8																																																																																																																																																																																																																																																																																																																										
9878-013	10.43	265	0.5%	154.4	146.9																																																																																																																																																																																																																																																																																																																										
9878-014	10.63	270	0.5%	155.6	148.1																																																																																																																																																																																																																																																																																																																										
9878-015	10.83	275	0.5%	156.7	149.2																																																																																																																																																																																																																																																																																																																										
9878-016	11.02	280	0.5%	157.8	150.3																																																																																																																																																																																																																																																																																																																										
9878-017	11.22	285	0.5%	158.9	151.4																																																																																																																																																																																																																																																																																																																										
9878-018	11.42	290	0.5%	160.0	152.5																																																																																																																																																																																																																																																																																																																										
9878-019	11.61	295	0.5%	161.1	153.6																																																																																																																																																																																																																																																																																																																										
9878-020	11.81	300	0.5%	162.2	154.7																																																																																																																																																																																																																																																																																																																										
9878-N020	11.81	300	0.0%	162.2	154.7																																																																																																																																																																																																																																																																																																																										
▲ 9878-N203	11.81	300	0.0%	96.8	93.05																																																																																																																																																																																																																																																																																																																										
9878-021	12.01	305	0.5%	163.3	155.8																																																																																																																																																																																																																																																																																																																										
9878-022	12.20	310	0.5%	164.4	156.9																																																																																																																																																																																																																																																																																																																										
9878-023	12.40	315	0.5%	165.5	158.0																																																																																																																																																																																																																																																																																																																										
9878-024	12.60	320	0.5%	166.6	159.1																																																																																																																																																																																																																																																																																																																										
9878-025	12.80	325	0.5%	167.7	160.2																																																																																																																																																																																																																																																																																																																										
9878-026	12.99	330	0.5%	168.8	161.3																																																																																																																																																																																																																																																																																																																										
9878-027	13.19	335	0.5%	169.9	162.4																																																																																																																																																																																																																																																																																																																										
9878-028	13.39	340	0.5%	171.0	163.5																																																																																																																																																																																																																																																																																																																										
9878-029	13.58	345	0.5%	172.1	164.6																																																																																																																																																																																																																																																																																																																										
9878-030	13.78	350	0.5%	173.2	165.7																																																																																																																																																																																																																																																																																																																										
9878-N030	13.78	350	0.0%	173.2	165.7																																																																																																																																																																																																																																																																																																																										
▲ 9878-N303	13.78	350	0.0%	101.3	97.55																																																																																																																																																																																																																																																																																																																										
9878-031	13.98	355	0.5%	174.4	166.9																																																																																																																																																																																																																																																																																																																										
9878-032	14.17	360	0.5%	175.5	168.0																																																																																																																																																																																																																																																																																																																										
9878-033	14.37	365	0.5%	176.6	169.1																																																																																																																																																																																																																																																																																																																										
9878-034	14.57	370	0.5%	177.7	170.2																																																																																																																																																																																																																																																																																																																										
9878-035	14.76	375	0.5%	178.8	171.3																																																																																																																																																																																																																																																																																																																										
9878-036	14.96	380	0.5%	179.9	172.4																																																																																																																																																																																																																																																																																																																										
9878-037	15.16	385	0.5%	181.0	173.5																																																																																																																																																																																																																																																																																																																										
9878-038	15.35	390	0.5%	182.1	174.6																																																																																																																																																																																																																																																																																																																										
9878-039	15.55	395	0.5%	183.2	175.7																																																																																																																																																																																																																																																																																																																										
9878-040	15.75	400	0.5%	184.3	176.8																																																																																																																																																																																																																																																																																																																										
9878-N040	15.75	400	0.0%	184.3	176.8																																																																																																																																																																																																																																																																																																																										
▲ 9878-N403	15.75	400	0.0%	110.1	106.4																																																																																																																																																																																																																																																																																																																										
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">B</td> <td style="width: 15%; text-align: center;">01-06-26</td> <td style="width: 35%; text-align: center;">Revised Table and Text</td> <td style="width: 10%; text-align: center;">TB</td> <td style="width: 10%; text-align: center;">KV</td> <td colspan="5"></td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">12-18-14</td> <td style="text-align: center;">Revised Table</td> <td style="text-align: center;">TBW</td> <td style="text-align: center;">PJ</td> <td colspan="5"></td> </tr> <tr> <td style="text-align: center;">REV.</td> <td style="text-align: center;">DATE</td> <td style="text-align: center;">DESCRIPTION</td> <td style="text-align: center;">BY</td> <td style="text-align: center;">CKD. BY</td> <td colspan="5"></td> </tr> </table>															B	01-06-26	Revised Table and Text	TB	KV						A	12-18-14	Revised Table	TBW	PJ						REV.	DATE	DESCRIPTION	BY	CKD. BY																																																																																																																																																																																																																																																																																								
B	01-06-26	Revised Table and Text	TB	KV																																																																																																																																																																																																																																																																																																																											
A	12-18-14	Revised Table	TBW	PJ																																																																																																																																																																																																																																																																																																																											
REV.	DATE	DESCRIPTION	BY	CKD. BY																																																																																																																																																																																																																																																																																																																											