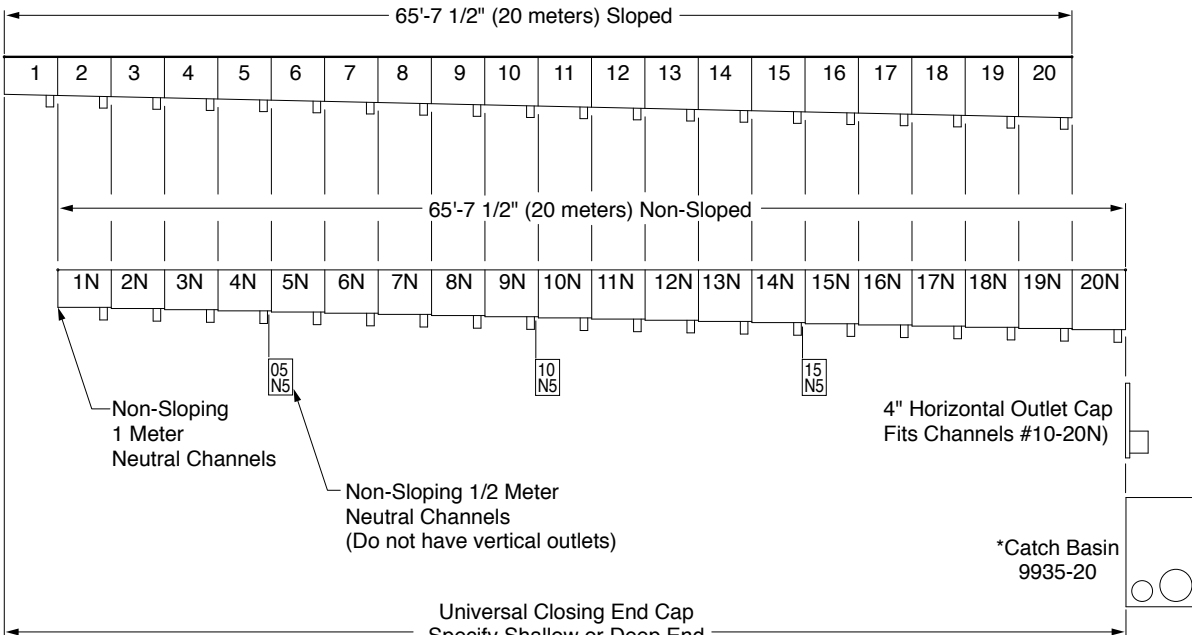
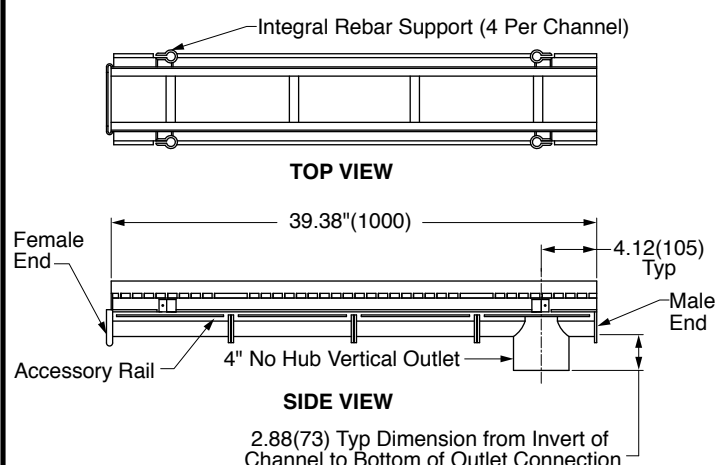
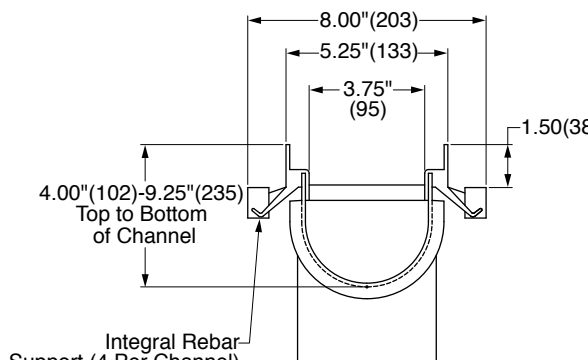





W	DRAWING NUMBER S9930	SIZE A	SCALE: NONE	DATE: 8-11-94	APPROVED BY: PACE	CHECKED BY: PACE	DRAWN BY: TWK	9930	SMITH® JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com			ASPE MEMBER OF: FEDERATION OF DRAINAGE ENGINEERS INSTITUTE		LOCATION																	
									9930 SERIES ENVIRO-FLO® II DRAIN SYSTEM																						
									FUNCTION: Used in all surface drainage applications, may be assembled in any length utilizing interlocking tongue and groove ends. This reduces installation time and cost, providing an engineered sloped solution for drainage requirements.																						
																															
																															
																															
<p>REGULARLY FURNISHED: 1 Meter (3.28') 100% Polypropylene Post Industrial Recycled Material with U.V. Inhibitors. Channel of Interlocking Design with a Built-in Slope of 0.6% with Radiused Bottom. Supplied with Secured Grate.</p> <p>VARIATIONS:</p> <table><tr><td><input type="checkbox"/></td><td>Grate Specifications (See Back)</td></tr><tr><td><input type="checkbox"/></td><td>Closing End Cap Shallow -ES</td></tr><tr><td><input type="checkbox"/></td><td>Closing End Cap Deep -ED</td></tr><tr><td><input type="checkbox"/></td><td>Horizontal Outlet 4" -H4</td></tr><tr><td><input type="checkbox"/></td><td>Catch Basin Only 9935-20</td></tr><tr><td><input type="checkbox"/></td><td>Catch Basin Plastic Bucket -BP</td></tr><tr><td><input type="checkbox"/></td><td>Direction Change Coupling -MC</td></tr><tr><td><input type="checkbox"/></td><td>Stainless Steel Overlay Rails -SSR</td></tr><tr><td><input type="checkbox"/></td><td>9849 Rante Arrow</td></tr><tr><td><input type="checkbox"/></td><td>4" NO-HUB Bottom Outlet Adaptor -BO***</td></tr></table> <p>Note: Dimensions in Parentheses are in mm.</p> <p>*Note: If Catch Basin is Specified For Any Other Channel Except For the #20 Channel, a Shim Must be Ordered, P/N: 9930-ES</p> <p>Note: This Trench Drain System is Designed for "On Grade Applications Only" as There are No Provisions for a Flashing Flange or Flashing Clamp</p> <p>**Note: All 1 Meter Long Sloped and Neutral Channels Have a Molded 4"(111) No-Hub Bottom Connection.</p> <p>***Note: See Other side of sheet</p>												<input type="checkbox"/>	Grate Specifications (See Back)	<input type="checkbox"/>	Closing End Cap Shallow -ES	<input type="checkbox"/>	Closing End Cap Deep -ED	<input type="checkbox"/>	Horizontal Outlet 4" -H4	<input type="checkbox"/>	Catch Basin Only 9935-20	<input type="checkbox"/>	Catch Basin Plastic Bucket -BP	<input type="checkbox"/>	Direction Change Coupling -MC	<input type="checkbox"/>	Stainless Steel Overlay Rails -SSR	<input type="checkbox"/>	9849 Rante Arrow	<input type="checkbox"/>	4" NO-HUB Bottom Outlet Adaptor -BO***
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REV.		DATE		DESCRIPTION		BY		CKD. BY		WEIGHT POUNDS		VOLUME CUBIC FEET		FIGURE NUMBER 9930																	

T	DRAWING NUMBER S9930BS	SIZE A	SCALE: NONE	DATE: 8-2-93	APPROVED BY: PACE	CHECKED BY: PACE	DRAWN BY: TWK	FIGURE NUMBER 9930BS	DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE	WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA	<div>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: 334-272-7396 www.jrsmith.com</div> <div></div> <div>CUSTOMER DRIVEN SINCE 1926</div>	LOCATION																																																																																																																																																																																																																																																																																			
											<div>9930 SERIES ENVIRO-FLO® II DRAIN SYSTEM</div> <div><div>Light Duty DIN 19580 Load Class A: 3500 lbs - 70 psi. For pedestrian, wheelchair and bicycle traffic.</div><div><div><div><div><div><input type="checkbox"/> 9870-410-GP - 1/4 dia perforated galv. steel grate (28.30 sq. in.)</div><div><input type="checkbox"/> 9870-420-G - 3 1/4 x 3/8 slotted galv. steel grate (35.20 sq. in.)</div><div><input type="checkbox"/> 9870-450-SS - 3 1/4 x 3/8 slotted stainless steel grate (42.60 sq. in.)</div><div><input type="checkbox"/> 9870-451-SSPA - 1/4 dia perforated stainless steel grate (28.30 sq. in.)</div><div><input type="checkbox"/> 9870-447-SSADA - 13/16 x 3/16 longitudinal stainless steel slot bar grate (58.40 sq. in.)</div><div><input type="checkbox"/> 9870-491-HPP - 1 13/16 x 1/4 slotted black polypropylene grate (17.00 sq. in.) (Non Q-lok)</div><div><input type="checkbox"/> 9870-494-PADAB - 1 3/4 x 5/16 longitudinal slot black polypropylene grate (27.40 sq. in.)</div><div><input type="checkbox"/> 9870-494-PADAG - 1 3/4 x 5/16 longitudinal slot gray polypropylene grate (27.40 sq. in.)</div></div><div>Heavy Duty DIN 19580 Load Class C: 56,000 lbs - 1,162 psi. For commercial pneumatic tire traffic patterns, forklifts and tractor trailers.</div><div><div><div><div><div><input type="checkbox"/> 9870-405-GM - 13/16 x 1/2 longitudinal galv. steel slot bar grate (121.10 sq. in.)</div><div><input type="checkbox"/> 9870-411-GPHD - 1/4 dia perforated galv. steel grate (28.30 sq. in.)</div><div><input type="checkbox"/> 9870-425-GHD- 3 1/4 x 3/8 slotted galv. steel grate (35.20 sq. in.)</div><div><input type="checkbox"/> 9870-430-SSM - 13/16 x 1/2 longitudinal stainless steel slot bar grate (121.10 sq. in.)</div><div><input type="checkbox"/> 9870-455-SSHD - 3 1/4 x 3/8 slotted stainless steel grate (42.60 sq. in.)</div><div><input type="checkbox"/> 9870-465-SSP - 1/4 dia perforated stainless steel grate (28.30 sq. in.)</div><div><input type="checkbox"/> 9870-479-MD - Mosaic pattern ductile iron grate (19.50 sq. in.)</div><div><input type="checkbox"/> 9870-480-IW - Iron Wave pattern ductile iron grate (35.98 sq. in.)</div><div><input type="checkbox"/> 9870-481-ID - Iron Decorative pattern ductilr iron grate (19.00 sq. in.)</div><div><input type="checkbox"/> 9870-492-RC - 1 1/2 x 13/16 slotted resin composite grate (16.30 sq. in.)</div><div><input type="checkbox"/> 9870-461-M - 3 15/16 x 3/8 ductile iron slotted grate (34.10 sq. in)</div></div></div></div></div></div><div>***Supplied with QuickLok® securing device regularly furnished</div></div><div><div>HYDRAULIC CAPACITY AND DEEP END DEPTHS 9930 SYSTEM</div><table><tr><th>CHANNEL NUMBER</th><th>DEEP END DEPTH IN.</th><th>MM.</th><th>SLOPE</th><th>SINGLE CHANNEL EST CFS</th><th>EST GPM</th><th>WEIGHT Lbs.</th></tr><tr><td>9930-1</td><td>4.38</td><td>111</td><td>0.6%</td><td>.29</td><td>130</td><td>6.50</td></tr><tr><td>9930-1N</td><td>4.38</td><td>111</td><td>0.0%</td><td>.29</td><td>130</td><td>6.50</td></tr><tr><td>9930-2</td><td>4.62</td><td>117</td><td>0.6%</td><td>.31</td><td>139</td><td>6.60</td></tr><tr><td>9930-2N</td><td>4.62</td><td>117</td><td>0.0%</td><td>.31</td><td>139</td><td>6.60</td></tr><tr><td>9930-3</td><td>4.88</td><td>124</td><td>0.6%</td><td>.34</td><td>153</td><td>6.80</td></tr><tr><td>9930-3N</td><td>4.88</td><td>124</td><td>0.0%</td><td>.34</td><td>153</td><td>6.80</td></tr><tr><td>9930-4</td><td>5.12</td><td>130</td><td>0.6%</td><td>.36</td><td>162</td><td>6.90</td></tr><tr><td>9930-4N</td><td>5.12</td><td>130</td><td>0.0%</td><td>.36</td><td>162</td><td>6.90</td></tr><tr><td>9930-5</td><td>5.38</td><td>137</td><td>0.6%</td><td>.39</td><td>175</td><td>7.00</td></tr><tr><td>9930-5N</td><td>5.38</td><td>137</td><td>0.0%</td><td>.39</td><td>175</td><td>7.00</td></tr><tr><td>9930-6</td><td>5.62</td><td>143</td><td>0.6%</td><td>.42</td><td>189</td><td>7.20</td></tr><tr><td>9930-6N</td><td>5.62</td><td>143</td><td>0.0%</td><td>.42</td><td>189</td><td>7.20</td></tr><tr><td>9930-7</td><td>5.88</td><td>149</td><td>0.6%</td><td>.45</td><td>202</td><td>7.40</td></tr><tr><td>9930-7N</td><td>5.88</td><td>149</td><td>0.0%</td><td>.45</td><td>202</td><td>7.40</td></tr><tr><td>9930-8</td><td>6.12</td><td>155</td><td>0.6%</td><td>.47</td><td>211</td><td>7.60</td></tr><tr><td>9930-8N</td><td>6.12</td><td>155</td><td>0.0%</td><td>.47</td><td>211</td><td>7.60</td></tr><tr><td>9930-9</td><td>6.38</td><td>162</td><td>0.6%</td><td>.49</td><td>220</td><td>7.60</td></tr><tr><td>9930-9N</td><td>6.38</td><td>162</td><td>0.0%</td><td>.49</td><td>220</td><td>7.60</td></tr><tr><td>9930-10</td><td>6.62</td><td>168</td><td>0.6%</td><td>.53</td><td>238</td><td>7.80</td></tr><tr><td>9930-10N</td><td>6.62</td><td>168</td><td>0.0%</td><td>.53</td><td>238</td><td>7.80</td></tr><tr><td>9930-11</td><td>6.68</td><td>170</td><td>0.6%</td><td>.56</td><td>251</td><td>8.00</td></tr><tr><td>9930-11N</td><td>6.68</td><td>170</td><td>0.0%</td><td>.56</td><td>251</td><td>8.00</td></tr><tr><td>9930-12</td><td>7.12</td><td>181</td><td>0.6%</td><td>.58</td><td>261</td><td>8.00</td></tr><tr><td>9930-12N</td><td>7.12</td><td>181</td><td>0.0%</td><td>.58</td><td>261</td><td>8.00</td></tr><tr><td>9930-13</td><td>7.38</td><td>187</td><td>0.6%</td><td>.61</td><td>274</td><td>8.40</td></tr><tr><td>9930-13N</td><td>7.38</td><td>187</td><td>0.0%</td><td>.61</td><td>274</td><td>8.40</td></tr><tr><td>9930-14</td><td>7.62</td><td>194</td><td>0.6%</td><td>.64</td><td>287</td><td>8.40</td></tr><tr><td>9930-14N</td><td>7.62</td><td>194</td><td>0.0%</td><td>.64</td><td>287</td><td>8.40</td></tr><tr><td>9930-15</td><td>7.88</td><td>200</td><td>0.6%</td><td>.67</td><td>301</td><td>8.60</td></tr><tr><td>9930-15N</td><td>7.88</td><td>200</td><td>0.0%</td><td>.67</td><td>301</td><td>8.60</td></tr><tr><td>9930-16</td><td>8.12</td><td>206</td><td>0.6%</td><td>.70</td><td>314</td><td>8.80</td></tr><tr><td>9930-16N</td><td>8.12</td><td>206</td><td>0.0%</td><td>.70</td><td>314</td><td>8.80</td></tr><tr><td>9930-17</td><td>8.38</td><td>213</td><td>0.6%</td><td>.73</td><td>328</td><td>8.80</td></tr><tr><td>9930-17N</td><td>8.38</td><td>213</td><td>0.0%</td><td>.73</td><td>328</td><td>8.80</td></tr><tr><td>9930-18</td><td>8.62</td><td>219</td><td>0.6%</td><td>.76</td><td>341</td><td>9.00</td></tr><tr><td>9930-18N</td><td>8.62</td><td>219</td><td>0.0%</td><td>.76</td><td>341</td><td>9.00</td></tr><tr><td>9930-19</td><td>8.88</td><td>226</td><td>0.6%</td><td>.79</td><td>355</td><td>9.20</td></tr><tr><td>9930-19N</td><td>8.88</td><td>226</td><td>0.0%</td><td>.79</td><td>355</td><td>9.20</td></tr><tr><td>9930-20</td><td>9.12</td><td>232</td><td>0.6%</td><td>.82</td><td>368</td><td>9.40</td></tr><tr><td>9930-20N</td><td>9.12</td><td>232</td><td>0.0%</td><td>.82</td><td>368</td><td>9.40</td></tr></table><div><div>Note: Channel flow rates based on channels less grates and open ended.</div><div>Note: The grate securing bolts must remain secured in the grate and tightened to the locking bar installed in the channel. If the grate securing bolts are removed for maintenance of the trench drain, they must be replaced and re-tightened. If the grate securing bolts are left out of the grates, the life span of the trench drain system could be affected along with the safety of pedestrian traffic.</div><div>***Note: When installing the 9930-BO bottom outlet hub on channel #1, #1N, #2 or #2N, a slight modification is required to the hub due to the close proximity of the channel frame at the top of the channel to the accessory rail. This modification will require that the angled tabs on the clips at the top of the hub must be trimmed off. The clips will have to be pried over the accessory rail with a screwdriver. Refer to page 12 in the installation guide for more information on this modification.</div></div></div></div></div>	CHANNEL NUMBER	DEEP END DEPTH IN.	MM.	SLOPE	SINGLE CHANNEL EST CFS	EST GPM	WEIGHT Lbs.	9930-1	4.38	111	0.6%	.29	130	6.50	9930-1N	4.38	111	0.0%	.29	130	6.50	9930-2	4.62	117	0.6%	.31	139	6.60	9930-2N	4.62	117	0.0%	.31	139	6.60	9930-3	4.88	124	0.6%	.34	153	6.80	9930-3N	4.88	124	0.0%	.34	153	6.80	9930-4	5.12	130	0.6%	.36	162	6.90	9930-4N	5.12	130	0.0%	.36	162	6.90	9930-5	5.38	137	0.6%	.39	175	7.00	9930-5N	5.38	137	0.0%	.39	175	7.00	9930-6	5.62	143	0.6%	.42	189	7.20	9930-6N	5.62	143	0.0%	.42	189	7.20	9930-7	5.88	149	0.6%	.45	202	7.40	9930-7N	5.88	149	0.0%	.45	202	7.40	9930-8	6.12	155	0.6%	.47	211	7.60	9930-8N	6.12	155	0.0%	.47	211	7.60	9930-9	6.38	162	0.6%	.49	220	7.60	9930-9N	6.38	162	0.0%	.49	220	7.60	9930-10	6.62	168	0.6%	.53	238	7.80	9930-10N	6.62	168	0.0%	.53	238	7.80	9930-11	6.68	170	0.6%	.56	251	8.00	9930-11N	6.68	170	0.0%	.56	251	8.00	9930-12	7.12	181	0.6%	.58	261	8.00	9930-12N	7.12	181	0.0%	.58	261	8.00	9930-13	7.38	187	0.6%	.61	274	8.40	9930-13N	7.38	187	0.0%	.61	274	8.40	9930-14	7.62	194	0.6%	.64	287	8.40	9930-14N	7.62	194	0.0%	.64	287	8.40	9930-15	7.88	200	0.6%	.67	301	8.60	9930-15N	7.88	200	0.0%	.67	301	8.60	9930-16	8.12	206	0.6%	.70	314	8.80	9930-16N	8.12	206	0.0%	.70	314	8.80	9930-17	8.38	213	0.6%	.73	328	8.80	9930-17N	8.38	213	0.0%	.73	328	8.80	9930-18	8.62	219	0.6%	.76	341	9.00	9930-18N	8.62	219	0.0%	.76	341	9.00	9930-19	8.88	226	0.6%	.79	355	9.20	9930-19N	8.88	226	0.0%	.79	355	9.20	9930-20	9.12	232
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9930-15N	7.88	200	0.0%	.67	301	8.60																																																																																																																																																																																																																																																																																									
9930-16	8.12	206	0.6%	.70	314	8.80																																																																																																																																																																																																																																																																																									
9930-16N	8.12	206	0.0%	.70	314	8.80																																																																																																																																																																																																																																																																																									
9930-17	8.38	213	0.6%	.73	328	8.80																																																																																																																																																																																																																																																																																									
9930-17N	8.38	213	0.0%	.73	328	8.80																																																																																																																																																																																																																																																																																									
9930-18	8.62	219	0.6%	.76	341	9.00																																																																																																																																																																																																																																																																																									
9930-18N	8.62	219	0.0%	.76	341	9.00																																																																																																																																																																																																																																																																																									
9930-19	8.88	226	0.6%	.79	355	9.20																																																																																																																																																																																																																																																																																									
9930-19N	8.88	226	0.0%	.79	355	9.20																																																																																																																																																																																																																																																																																									
9930-20	9.12	232	0.6%	.82	368	9.40																																																																																																																																																																																																																																																																																									
9930-20N	9.12	232	0.0%	.82	368	9.40																																																																																																																																																																																																																																																																																									
REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9930BS																																																																																																																																																																																																																																																																																								