

# 10" WIDE HIGH CAPACITY PRE-SLOPED FIBERGLASS TRENCH DRAIN SYSTEM

DRAWING NUMBER  
**a9812**

SIZE  
**A**

SCALE:  
**NONE**

DATE:  
**8-20-93**

APPROVED BY:  
**PACE**

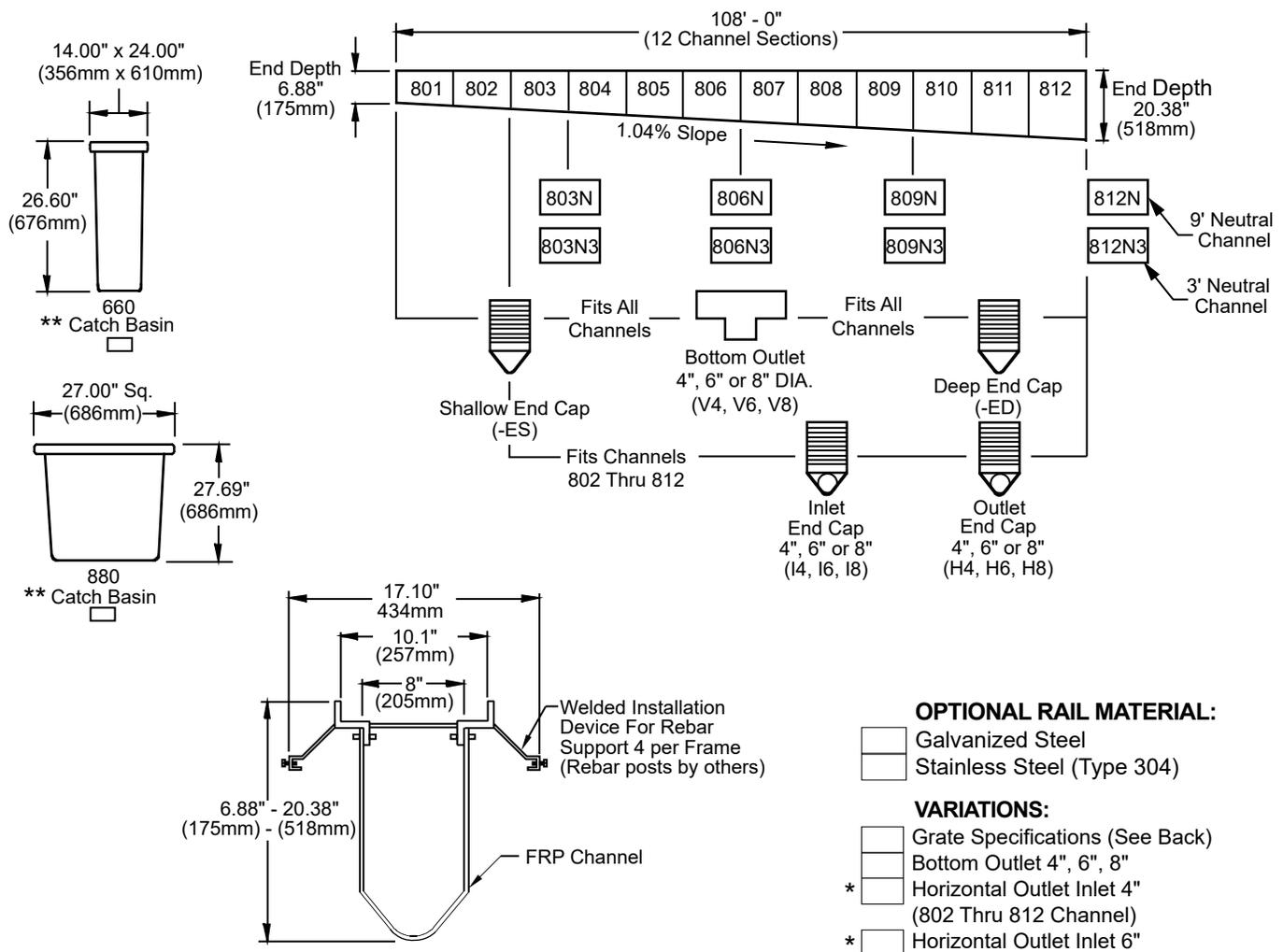
CHECKED BY:  
**PACE**

DRAWN BY:  
**TWK**

FIGURE NUMBER  
**9812**

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE



- \*\* SPECIFY CATCH BASIN GRATE**
- Ductile Iron Slotted Grate
  - Galvanized Steel Bar Grate
  - Stainless Steel Bar Grate

\* When Closing End Cap, Inlet Cap, or Horizontal Outlet Cap are Specified a End Frame must be Specified also.

**REGULARLY FURNISHED:**  
 9' Foot Long High Capacity Polyester Fiberglass Channel with Sloped Radius Bottom Surface with Male/Female Connections Providing a High Integrity Lap Joint. Duco Coated Welded Steel Frame Support System with Concrete Anchors (One Pair Every 18 Inches). Supplied with Secured Grate Per Your Specification.

- OPTIONAL RAIL MATERIAL:**
- Galvanized Steel
  - Stainless Steel (Type 304)
- VARIATIONS:**
- Grate Specifications (See Back)
  - Bottom Outlet 4", 6", 8"
  - \*  Horizontal Outlet Inlet 4" (802 Thru 812 Channel)
  - \*  Horizontal Outlet Inlet 6" (803 Thru 812 Channel)
  - \*  Horizontal Outlet Inlet 8" (805 Thru 812 Channel)
  - \*  Universal Shallow Closing End Cap
  - \*  Universal Deep Closing End Cap
  - 880 Catch Basin
  - 660 Catch Basin
  - Plastic Bucket 880 Catch Basin
  - Plastic Bucket 660 Catch Basin

**Note:** This trench drainage system is designed for "on grade applications only", as there are no provisions for a flashing flange or flashing clamp.



Q	8-31-23	Removed Function Deleted Vinylester Material Revised Drawing Added Note	HS	CL	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER <b>9812</b>
P	1-30-14		TBW	PJ			
N	9-27-07		JJ	MD			
M	5-16-05		TBW	PJ			
REV.	DATE	DESCRIPTION	BY	CKD. BY			

R



**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



MEMBER OF:

LOCATION

DRAWING NUMBER  
a9812BSSIZE  
ASCALE:  
NONEDATE:  
8-20-93

APPROVED BY:

CHECKED BY:  
PACEDRAWN BY:  
TWK

9812BS

FIGURE NUMBER

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

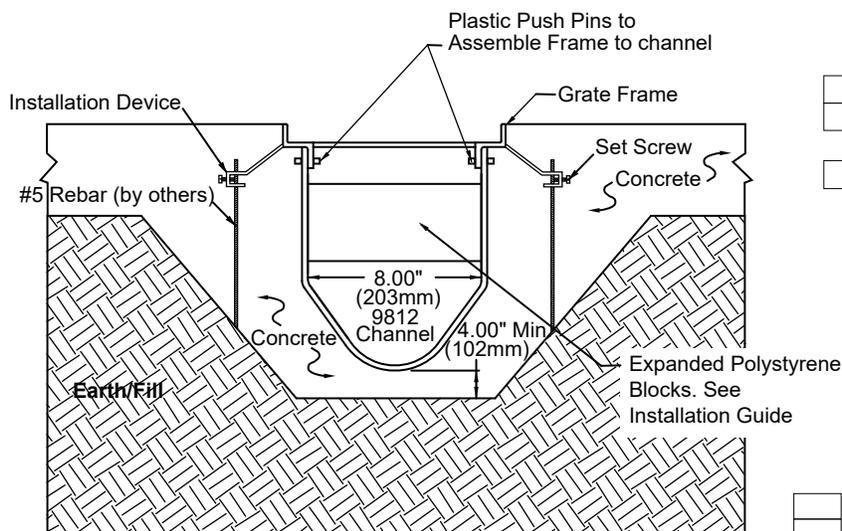
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

## 10" WIDE HIGH CAPACITY PRE-SLOPED FIBERGLASS TRENCH DRAIN SYSTEM

### Deep End Depths 9812 System

Channel Number	Deep End Depths*		Holding Capacity (gallons)
	in .	mm	
9812-801	8.00	203	18.37
9812-802	9.13	232	22.58
9812-803	10.25	260	26.79
** 9812-803N	10.25	260	28.80
*** 9812-803N3	10.25	260	9.60
9812-804	11.38	289	31.00
9812-805	12.50	317	35.21
9812-806	13.63	346	39.42
** 9812-806N	13.63	346	41.50
*** 9812-806N3	13.63	346	13.83
9812-807	14.75	374	43.63
9812-808	15.88	403	47.84
9812-809	17.00	432	52.05
** 9812-809N	17.00	432	54.10
*** 9812-809N3	17.00	432	18.00
9812-810	18.13	460	56.26
9812-811	19.25	489	60.47
9812-812	20.38	517	64.68
** 9812-812N	20.38	517	66.76
*** 9812-812N3	20.38	517	22.25

\*The end depths include grate frame.



### TYPICAL INSTALLATION CROSS SECTION

### Outlet Cap Flow Rates

Outlet Size	Channel	Invert Depth	GPM	CFS
4" Vertical	801	7.88 (200)	154	0.34
4" Vertical	812	20.25 (514)	246	0.54
6" Vertical	801	7.88 (200)	346	0.77
6" Vertical	812	20.25 (514)	553	1.23
8" Vertical	801	7.88 (200)	616	1.37
8" Vertical	812	20.25 (514)	982	2.18
4" Horizontal	802	9.00 (229)	145	0.33
4" Horizontal	812	20.25 (514)	233	0.54
6" Horizontal	803	10.13 (257)	330	0.76
6" Horizontal	812	20.25 (514)	510	1.17
8" Horizontal	805	12.38 (314)	635	1.46
8" Horizontal	812	20.25 (514)	880	2.03

Dim's in ( ) are mm.

\*\* 9' Long Neutral Channel

\*\*\* 3' Long Neutral Channel

**Note:** This trench drainage system is designed for "on grade applications only", as there are no provisions for a flashing flange or flashing clamp.

Heavy Duty, DIN 19580 Class C -56,000 lbs - 1,162 psi For commercial pneumatic tire traffic patterns, forklifts and tractor trailers.

- 9812-G Galvanized Bar Grate 263.5 SQ IN
- 9812-SS (Type 304) Stainless Steel Bar Grate 263.5 SQ IN
- 9812-SS (Type 316) Stainless Steel Bar Grate 263.5 SQ IN

Extra Heavy Duty, DIN 19580 Class E - 135,000 lbs - 2,788 psi For commercial solid tire traffic patterns, forklifts and impacts from steel struts or metal wheels.

- 9812-M Slotted Ductile Iron Grate 61.25 Sq. In.
- 9812-MADA Ductile Iron ADA Grate 42.00 Sq. In.

**SMITH® ACO**  
Trench Drain Series

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
	02/22/22	Deleted Vinylester Grate	KK	PJ			9812BS
	9-5-13	Deleted Cast Iron Grate	TBW	PJ			
	9-27-07	Revised Drawing	JJ	MD			



**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov