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SMITH® JAY R. SMITH MFG. CO.®
 MEMBER OF MORRIS GROUP INTERNATIONAL
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 TEL: 334-277-8520 FAX: 888-377-7818 www.jrsmith.com



LOCATION

9940 ZIP TRENCH®



DRAWING NUMBER
S9940

SIZE
A

SCALE:
NONE

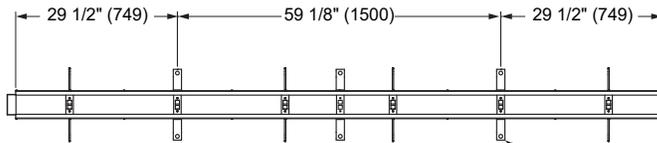
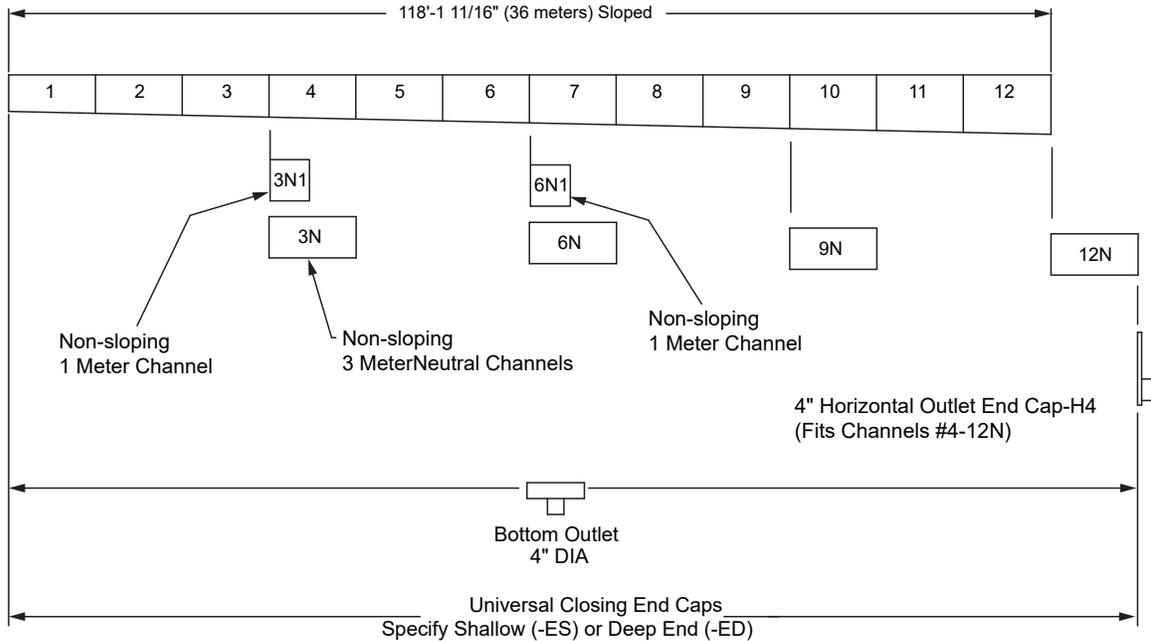
DATE:
3-23-18

APPROVED BY:
PJ

CHECKED BY:
PJ

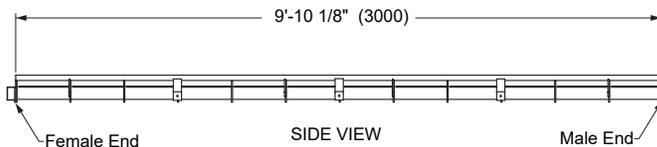
DRAWN BY:
TBW

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

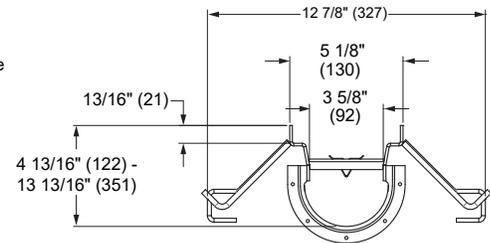


TOP VIEW

Welded Installation Device For Rebar Support (4 Per Frame) (Rebar Posts By Others)



SIDE VIEW



ENLARGED END VIEW

REGULARLY FURNISHED:

3 meter (9.84') 100% Polypropylene with UV Inhibitors Assembled to Coated Steel Frame with Channels Connect with 1 1/4" Overlap Joint. Design has a Built In Slope of 0.6% with Radiused Bottom. Supplied with Secured Grate Per Specification.

VARIATIONS:

- Grate Specifications (See Back)
- Closing End Cap Shallow -ES
- Closing End Cap Deep -ED
- Horizontal Outlet 4" -H4
- 4" NO-HUB Bottom Outlet -V4

OPTIONAL RAIL MATERIAL:

- Galvanized Steel
- Type 304 Stainless Steel

NOTE: Dimensions shown in parentheses are in millimeters.

Note: This Trench Drain System is Designed for "On Grade Applications Only" as There are No Provisions for a Flashing Flange or Flashing Clamp

9940

FIGURE NUMBER

F	10-7-25	Removed 6" Wide	TB	KV	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9940
E	12-5-24	Added Rebar Brackets	HS	PJ			
D	6-3-24	Changed™ to	HS	CL			
C	9-1-23	Removed Function	HS	CL			
REV.	DATE	DESCRIPTION	BY	CKD. BY			



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

9940 ZIP TRENCH®

HYDRAULIC CAPACITY SHALLOW / DEEP END DEPTHS 9940 SYSTEM

Channel Number	Shallow End Invert		Deep End Invert		Slope	Single Channel		Weight Lbs. Frame + Channel
	Inch	mm	Inch	mm		Est. CFS	Est. GPM	
9940-1	4.81	122	5.56	141	0.6%	.29	130	38.00
9940-2	5.56	141	6.31	160	0.6%	.31	139	39.00
9940-3	6.31	160	7.06	179	0.6%	.34	153	40.00
9940-3N1	7.06	179	7.06	179	0.0%			13.00
9940-3N	7.06	179	7.06	179	0.0%			40.00
9940-4	7.06	179	7.81	198	0.6%	.36	162	41.00
9940-5	7.81	198	8.56	267	0.6%	.39	175	42.00
9940-6	8.56	267	9.31	236	0.6%	.42	189	44.00
9940-6N1	9.31	236	9.31	236	0.0%			15.00
9940-6N	9.31	236	9.31	236	0.0%			44.00
9940-7	9.31	236	10.06	256	0.6%	.45	202	45.00
9940-8	10.06	256	10.81	275	0.6%	.47	211	47.00
9940-9	10.81	275	11.56	294	0.6%	.49	220	49.00
9940-9N	11.56	294	11.56	294	0.0%			51.00
9940-10	11.56	294	12.31	313	0.6%	.53	238	51.50
9940-11	12.31	313	13.06	332	0.6%	.56	251	51.00
9940-12	13.06	332	13.81	351	0.6%	.58	261	51.00
9940-12N	13.81	351	13.81	351	0.0%			51.00

Note: Channel flow rates based on channels less grates and open ended.

Heavy Duty DIN 19580/EN 1433 Load Class C:
56,000 lbs - 1,162 psi. For commercial pneumatic tire traffic patterns, forklifts (pneumatic tire) and tractor trailers (pneumatic tire).

Light Duty DIN 19580/EN 1433 Load Class A:
3500 lbs - 70 psi. For pedestrian, wheelchair and bicycle traffic.

- * 9870-410-GP - 1/4 dia perforated galv. steel grate (28.30 sq. in.)
- * 9870-420-G - 3 1/4 x 3/8 slotted galv. steel grate (35.20 sq. in.)
- * 9870-451-SSPA - 1/4 dia perforated stainless steel grate (28.30 sq. in.)
- * 9870-494-PADAB - 1 3/4 x 5/16 longitudinal slot black polypropylene grate (27.40 sq. in.)
- * 9870-494-PADAG - 1 3/4 x 5/16 longitudinal slot gray polypropylene grate (27.40 sq. in.)
- * 9870-450-ss - 3 1/4 x 3/8 slotted stainless steel grate (42.60 sq. in.)

Medium Duty DIN 19580/EN 1433 Load Class B:
28100 lbs - 581 psi. For light vehicle traffic.

- * 9870-447-SSADA - 13/16 x 3/16 longitudinal stainless steel slot bar grate (58.40 sq. in.)

*Supplied with Quick-lok® securing device regularly furnished

- * 9870-405-GM - 13/16 x 1/2 longitudinal galv. steel slot bar grate (121.10 sq. in.)
- * 9870-411-GPHD - 1/4 dia perforated galv. steel grate (28.30 sq. in.)
- * 9870-425-GHD - 3 1/4 x 3/8 slotted galv. steel grate (35.20 sq. in.)
- * 9870-430-SSM - 13/16 x 1/2 longitudinal stainless steel slot bar grate (121.10 sq. in.)
- * 9870-455-SSHD - 3 1/4 x 3/8 slotted stainless steel grate (42.60 sq. in.)
- * 9870-462-DGC - 3 15/16 x 3/8 ductile iron slotted grate (24.00 sq. in.)
- * 9870-465-SSP - 1/4 dia perforated stainless steel grate (28.30 sq. in.)
- * 9870-487-MADAC - 1 3/4 x 5/16 longitudinal ductile iron slotted grate (23.00 sq. in.)
- * 9870-479-MD - Mosaic pattern ductile iron grate (19.50 sq. in.)
- * 9870-481-ID - Iron Decorative pattern ductile iron grate (19.00 sq. in.)
- * 9870-492-RC - 1 1/2 x 13/16 slotted resin composite grate (16.30 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.

- * 9870-435-GHDE - 3 1/4 x 3/8 slotted galv. steel grate (42.60 sq. in.)
- * 9870-461-M - 3 15/16 x 3/8 ductile iron slotted grate (21.00 sq. in.)
- * 9870-478-MADA - 1 3/4 x 5/16 longitudinal ductile iron slotted grate (14.30 sq. in.)
- * 9870-490-SSHDE - 1 3/4 x 3/8 slotted stainless steel grate (42.60 sq. in.)



DRAWING NUMBER: S9940BS
 SIZE: A
 SCALE: NONE
 DATE: 3-23-18
 APPROVED BY: PJ
 CHECKED BY: PJ
 DRAWN BY: TBW
 FIGURE NUMBER: 9940BS
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
 WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

G T E D	10-7-25 6-3-24 5-15-24 9-15-20	Removed 6" Wide Changed™ to Added EN 1433 Added Grate (9870-450-SS)	TB HS HS MW	KV CL PJ MD	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9940BS
REV.	DATE	DESCRIPTION	BY	CKD. BY			