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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



LOCATION

9940 6" WIDE ZIP TRENCH®



DRAWING NUMBER
S9940

SIZE
A

SCALE:
NONE

DATE:
3-23-18

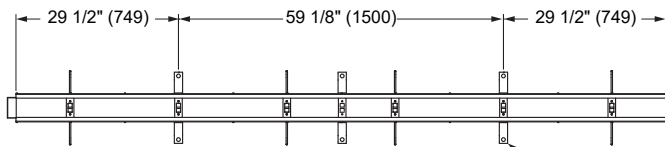
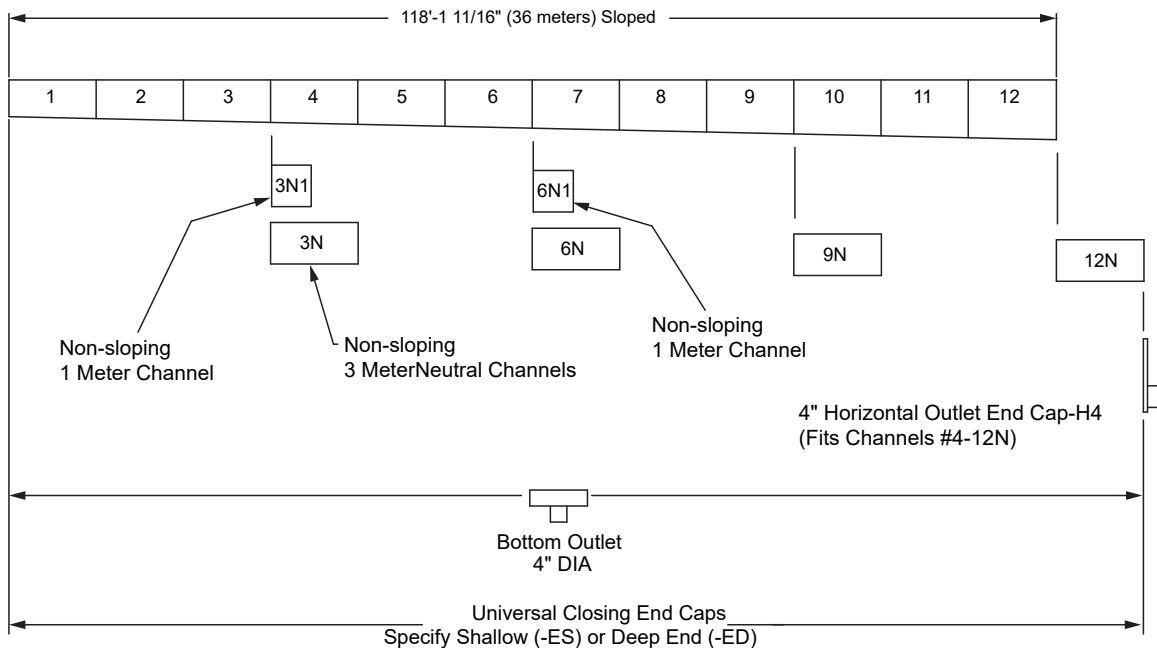
APPROVED BY:
PJ

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PJ

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TBW

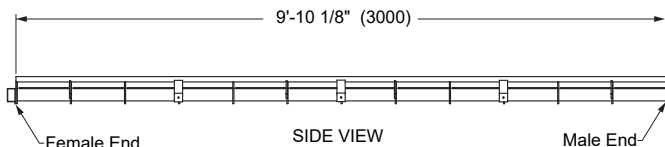
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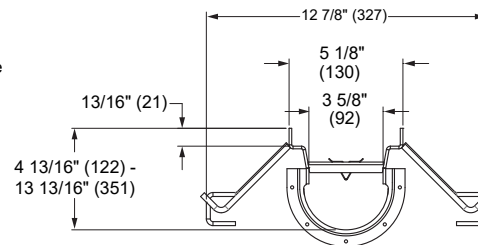


TOP VIEW

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

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
B	7-7-21	Corrected Dim. on Top View	KK	PJ
REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT POUNDS	VOLUME CUBIC FEET

FIGURE NUMBER
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F

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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	217	0.6%	.39	175	42.00
9940-6	8.56	217	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.)



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REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9940BS
FEDC	6-3-24 5-15-24 9-15-20 2-28-20	Changed™ to® Added EN 1433 Added Grate (9870-450-SS) Revised Table	HS HS MW MW	CL PJ MD PJ			