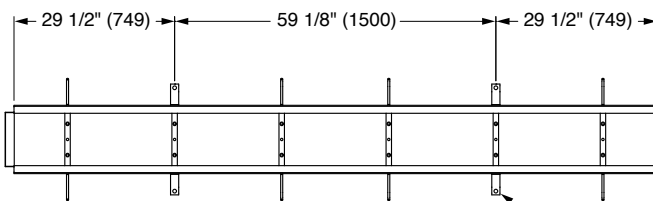
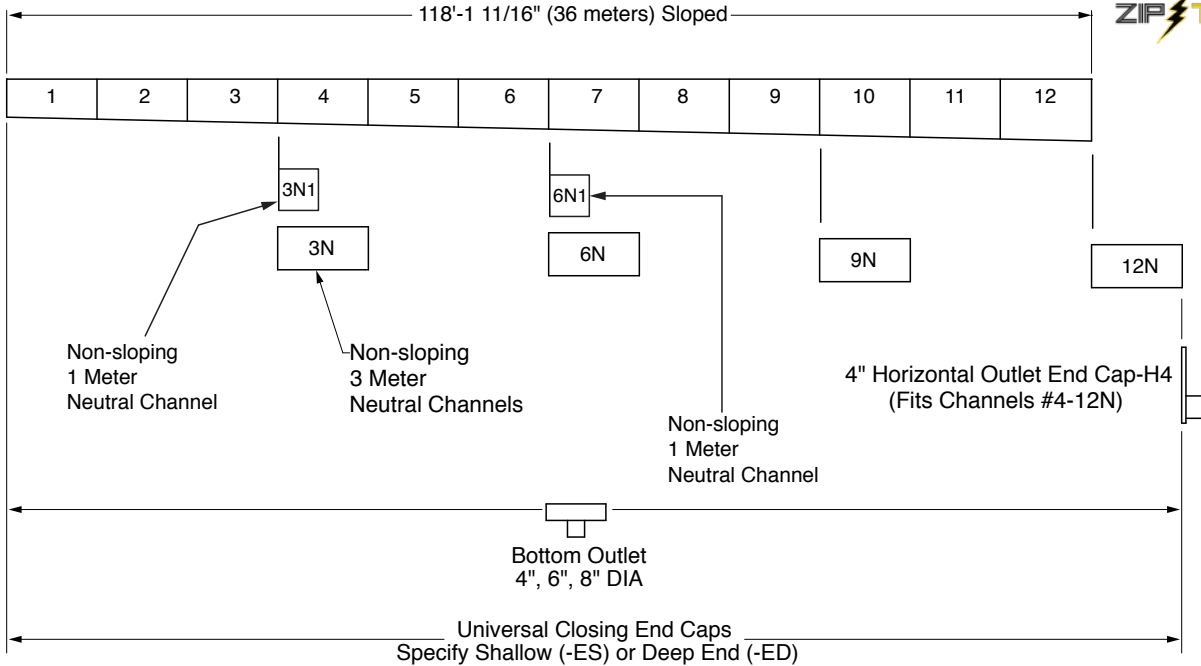


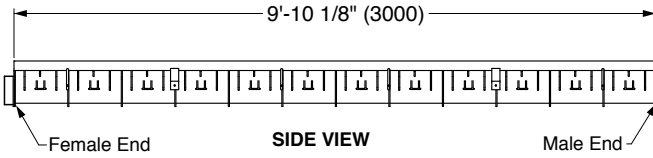
12" WIDE 9960 ZIP TRENCH™

FUNCTION: Used in all surface drainage applications. May be assembled in any length utilizing self aligning channel ends. This reduces installation times and cost, providing an engineered, sloped solution for drainage requirements.

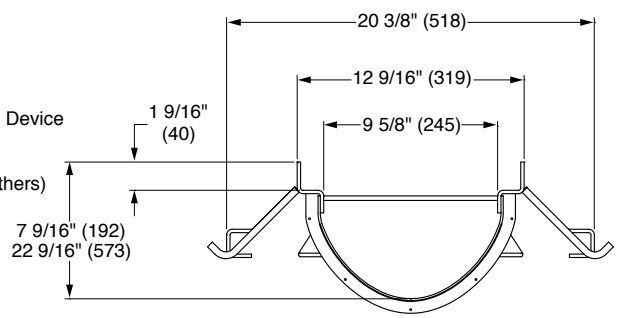


TOP VIEW

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



SIDE VIEW



ENLARGED END VIEW

REGULARLY FURNISHED:
 12 9/16" (319) wide, 3 meters (9.84') long, 100% Polypropylene Channel with UV Inhibitors and Coated Steel Frame. Channels connect with 2" Overlap Joint. Design has a Built In Slope of 1.07% 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", 6", 8" -H468
 - 4"/6"/8" NO-HUB Bottom Outlet -V468

- OPTIONAL RAIL MATERIAL:**
- Galvanized Steel
 - Type 304 Stainless Steel

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

DRAWING NUMBER: S9960
 SIZE: A
 SCALE: NONE
 DATE: 3-8-16
 APPROVED BY: PJ
 CHECKED BY: PJ
 DRAWN BY: TBW
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
 WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

9960

C	7-8-21	Corrected Dim. on Top View Added 3N1 & 6N1 Revised Title	KK	PJ	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9960
B	2-28-20		MW	PJ			
A	4-5-16		TBW	PJ			
REV.	DATE	DESCRIPTION	BY	CKD. BY			

H
 DRAWING NUMBER
S9960-BS
 SIZE
A
 SCALE:
NONE
 DATE:
3-8-16
 APPROVED BY:
PJ
 CHECKED BY:
PJ
 DRAWN BY:
TBW
9960-BS
 FIGURE NUMBER


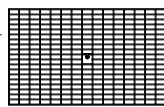
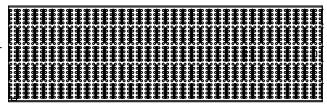
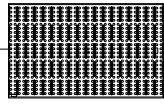

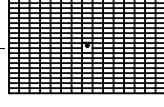
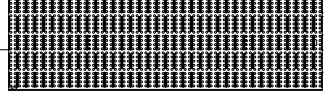
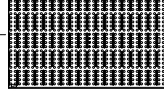


SMITH® JAY R. SMITH MFG. CO.®
 MEMBER OF MORRIS GROUP INTERNATIONAL
 POST OFFICE BOX 3237
 MONTGOMERY, ALABAMA 36109-0237 (USA)
 TEL: 334-277-8520 FAX: 888-377-7818 www.jrsmith.com
CUSTOMER DRIVEN SINCE 1926



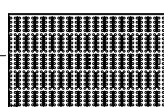
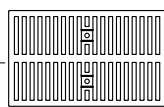
LOCATION

9960 ZIP TRENCH™

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

- 9960-GM1-** Galv. steel mesh grate (309.56 sq. in.) 1 meter 
- 9960-GM5-** Galv. steel mesh grate (157.62 sq. in.) 1/2 meter 
- 9960-GP1-** Perforated galv. steel grate (78.00 sq. in.) 1 meter 
- 9960-GP5-** Perforated galv. steel grate (39.00 sq. in.) 1/2 meter 
- 9960-SSM1-** Stainless steel mesh grate (309.56 sq. in.) 1 meter 
- 9960-SSM5-** Stainless steel mesh grate (157.62 sq. in.) 1/2 meter 
- 9960-SSP1-** Perforated stainless steel grate (78.00 sq. in.) 1 meter 
- 9960-SSP5-** Perforated stainless steel grate (39.00 sq. in.) 1/2 meter 
- 9960-MC-** Ductile iron slotted grate (87.87 sq. in.) 1/2 meter 
- 9960-MADAC-** Ductile iron ADA slotted grate (58.00 sq. in.) 1/2 meter 

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.

- 9960-M-** Ductile iron slotted grate (87.87 sq. in.) 1/2 meter 
- 9960-MADA-** Ductile iron ADA slotted grate (58.00 sq. in.) 1/2 meter 

HYDRAULIC CAPACITY AND DEEP END DEPTHS 9960 SYSTEM

Channel Number	Shallow End Invert Inch	Shallow End Invert mm	Slope	Deep End Invert Inch	Deep End Invert mm	Slope	Single Channel Est. CFS	Single Channel Est. GPM	Weight Lbs.
9660-1	7.56	192	1.07%	8.81	224	1.07%	1.85	830	76.00
9660-2	8.81	224	1.07%	10.06	256	1.07%	2.68	1205	79.00
9660-3	10.06	256	1.07%	11.31	287	1.07%	3.13	1407	81.00
9660-3N1	11.31	287	0.0%	11.31	287	0.0%	1.04	469	30.00
9660-3N	11.31	287	0.0%	11.31	287	0.0%	3.13	1407	81.00
9660-4	11.31	287	1.07%	12.56	319	1.07%	3.92	1760	83.00
9660-5	12.56	319	1.07%	13.81	351	1.07%	4.43	1990	86.00
9660-6	13.81	351	1.07%	15.06	383	1.07%	4.94	2220	89.00
9660-6N1	15.06	383	0.0%	15.06	383	0.0%	1.65	740	31.00
9660-6N	15.06	383	0.0%	15.06	383	0.0%	4.94	2220	89.00
9660-7	15.06	383	1.07%	16.31	414	1.07%	5.46	2450	92.00
9660-8	16.31	414	1.07%	17.56	446	1.07%	5.97	2680	94.00
9660-9	17.56	446	1.07%	18.81	478	1.07%	6.48	2910	97.00
9660-9N	18.81	478	0.0%	18.81	478	0.0%	6.48	2910	97.00
9660-10	18.81	478	1.07%	20.06	510	1.07%	7.00	3140	99.00
9660-11	20.06	510	1.07%	21.31	541	1.07%	7.51	3370	103.00
9660-12	21.31	541	1.07%	22.56	573	1.07%	8.00	3600	106.00
9660-12N	22.56	573	0.0%	22.56	573	0.0%	8.00	3600	106.00

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



REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
							9960-BS