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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

ASPE
 MEMBER OF:
 PDI INSTITUTE
 IRI

LOCATION

9960 ZIP TRENCH®

DRAWING NUMBER
S9960

SIZE
A

SCALE:
NONE

DATE:
3-8-16

APPROVED BY:
PJ

CHECKED BY:
PJ

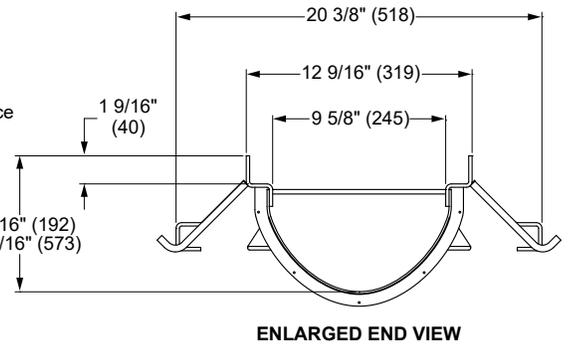
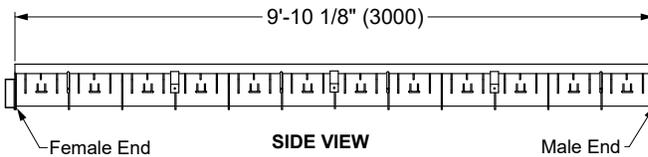
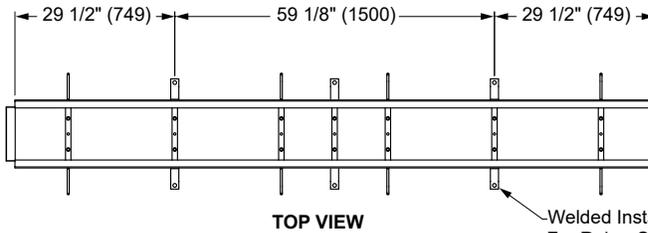
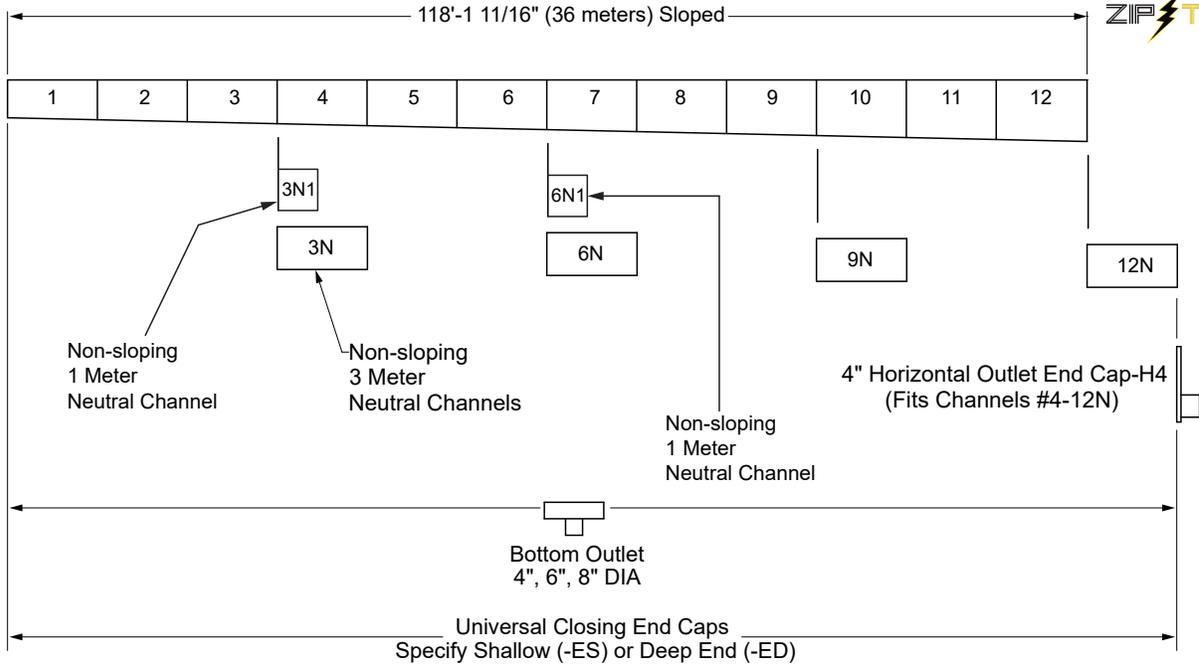
DRAWN BY:
TBW

9960

FIGURE NUMBER

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

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE



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

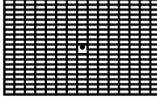
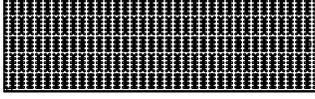
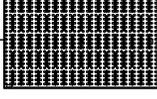
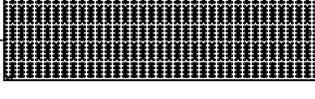
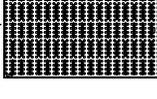
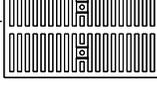
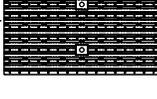
- OPTIONAL RAIL MATERIAL:**
- Galvanized Steel
 - Type 304 Stainless Steel

Note: Dimensions in parentheses are in mm.
Note: See structural engineer drawings for rebar placement around the trench drain and concrete encasement requirements.
Note: See structural engineer drawings for expansion joint placement outside the trench drain concrete encasement.

H	10-7-25	Removed 12" Wide	TB	KV	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 9960
G	12-5-24	Added Rebar Brackets	HS	PJ			
F	6-3-24	Added ®	HS	CL			
E	9-19-23	Added Notes	HS	PJ			
REV.	DATE	DESCRIPTION	BY	CKD. BY			

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		Slope	Deep End Invert		Slope	Single Channel		Weight Lbs.
	Inch	mm		Inch	mm		Est. CFS	Est. GPM	
9960-1	7.56	192	1.07%	8.81	224	1.07%	1.85	830	76.00
9960-2	8.81	224	1.07%	10.06	256	1.07%	2.68	1205	79.00
9960-3	10.06	256	1.07%	11.31	287	1.07%	3.13	1407	81.00
9960-3N1	11.31	287	0.0%	11.31	287	0.0%	1.04	469	30.00
9960-3N	11.31	287	0.0%	11.31	287	0.0%	3.13	1407	81.00
9960-4	11.31	287	1.07%	12.56	319	1.07%	3.92	1760	83.00
9960-5	12.56	319	1.07%	13.81	351	1.07%	4.43	1990	86.00
9960-6	13.81	351	1.07%	15.06	383	1.07%	4.94	2220	89.00
9960-6N1	15.06	383	0.0%	15.06	383	0.0%	1.65	740	31.00
9960-6N	15.06	383	0.0%	15.06	383	0.0%	4.94	2220	89.00
9960-7	15.06	383	1.07%	16.31	414	1.07%	5.46	2450	92.00
9960-8	16.31	414	1.07%	17.56	446	1.07%	5.97	2680	94.00
9960-9	17.56	446	1.07%	18.81	478	1.07%	6.48	2910	97.00
9960-9N	18.81	478	0.0%	18.81	478	0.0%	6.48	2910	97.00
9960-10	18.81	478	1.07%	20.06	510	1.07%	7.00	3140	99.00
9960-11	20.06	510	1.07%	21.31	541	1.07%	7.51	3370	103.00
9960-12	21.31	541	1.07%	22.56	573	1.07%	8.00	3600	106.00
9960-12N	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.



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

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