

Belimed

Infection Control

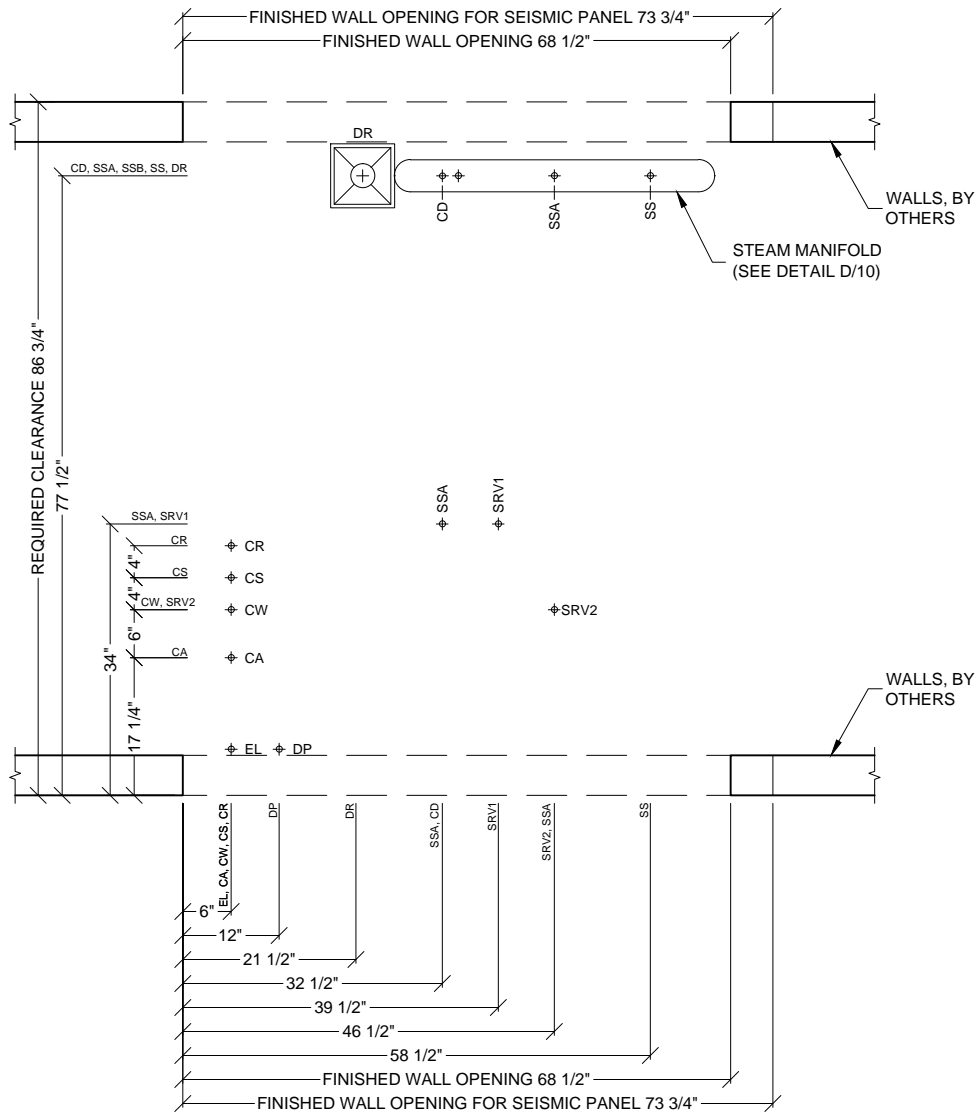
2325 Charleston Regional Parkway, Charleston, SC 29492
Tel: (800) 457-4117 Web: www.belimed.com

9618-HS2
RIGHT CHAMBER HORIZONTAL STERILIZER

3D IMAGE	Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
	Drawn By :	A. HERRON	Date :	2/26/16
	Scale :	N.T.S.	Page :	1 of 12

Typical installation of a Belimed right chamber
9618-HS2 Horizontal Sterilizer.

STERILE SIDE



CLEAN SIDE

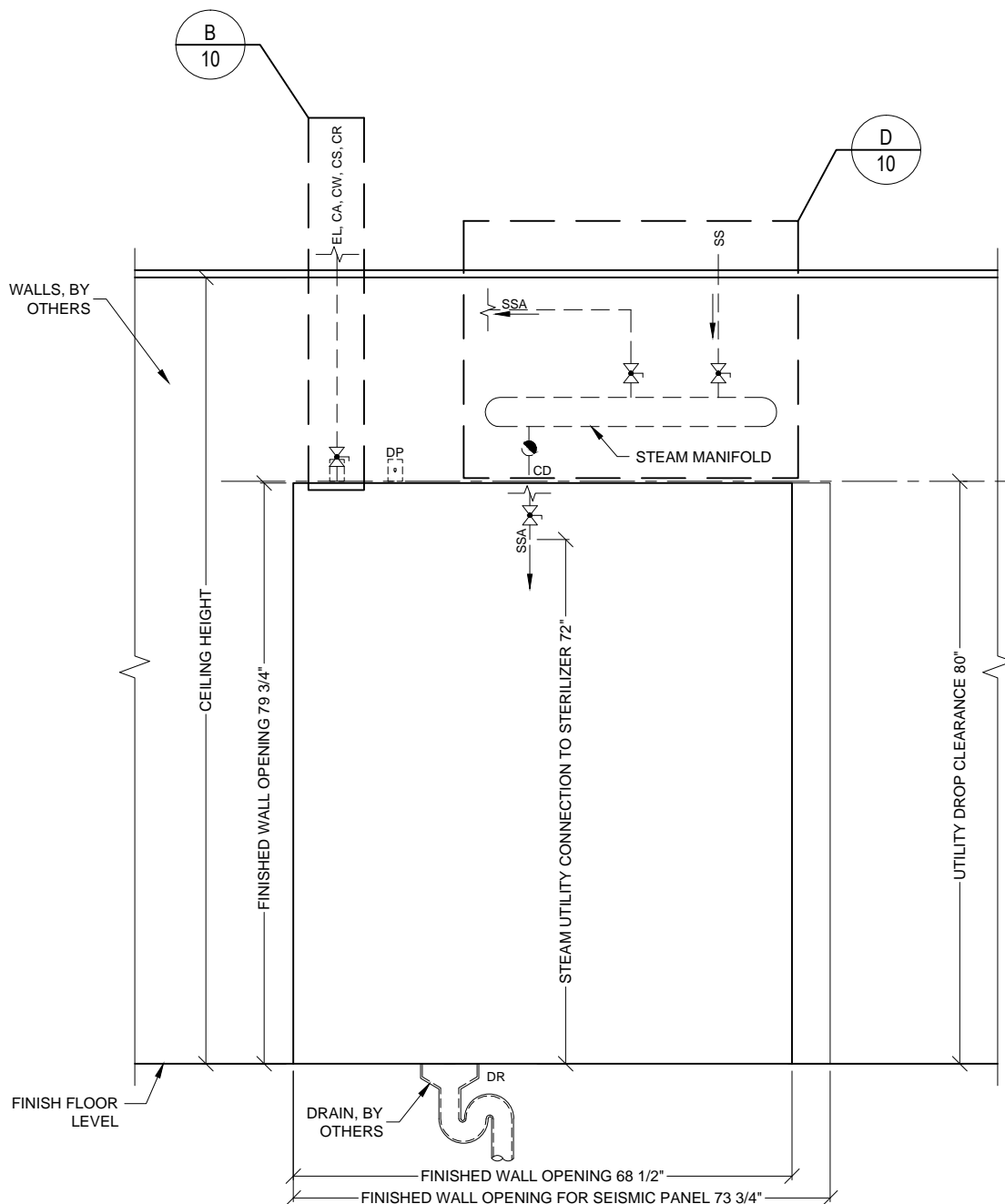
- CA — COMPRESSED AIR
- CD — CONDENSATE
- CR — CHILLED WATER RETURN (OPTIONAL)
- CS — CHILLED WATER SUPPLY (OPTIONAL)
- CW — COLD WATER
- DR — FLOOR DRAIN
- DP — DATA PORT
- EL — ELECTRICITY FOR MACHINE
- SRV — SAFETY PRESSURE RELIEF VALVE
- SS — STEAM

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9618-HS2 RIGHT CHAMBER HORIZONTAL STERILIZER

PLAN VIEW
 Typical site preparation of a right chamber
 9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
Scale :	1/2" = 1'	Page :	2 of 12



PHASE 1 CONNECTION POINT FOR UTILITIES ARE TO BE PROVIDED BY OTHERS **BEFORE** EQUIPMENT INSTALLATION BEGINS. PROVIDE SHUT-OFF VALVES AT PHASE 1 CONNECTION POINTS FOR SS, CD, CA, CS, CR, AND CW.

PHASE ONE
↑
PHASE TWO
↓

PHASE 2 CONNECTION OF UTILITIES TO EQUIPMENT ARE TO BE PROVIDED BY OTHERS **AFTER** EQUIPMENT HAS BEEN SET IN FINAL POSITION BY BELIMED. ALL FINAL CONNECTIONS (FROM PHASE 1 CONNECTION POINTS TO FINAL CONNECTION POINTS, PHASE 2) ARE BY OTHERS.

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DP — DATA PORT
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EL — ELECTRICITY FOR MACHINE
SS — STEAM

*SEE DETAIL C/10 FOR CHILLED WATER BYPASS.

LEGEND

SYMBOLS

— SERVICE SHUT-OFF VALVE, BY OTHERS
● — STEAM TRAP, BY OTHERS

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9618-HS2

RIGHT CHAMBER HORIZONTAL STERILIZER

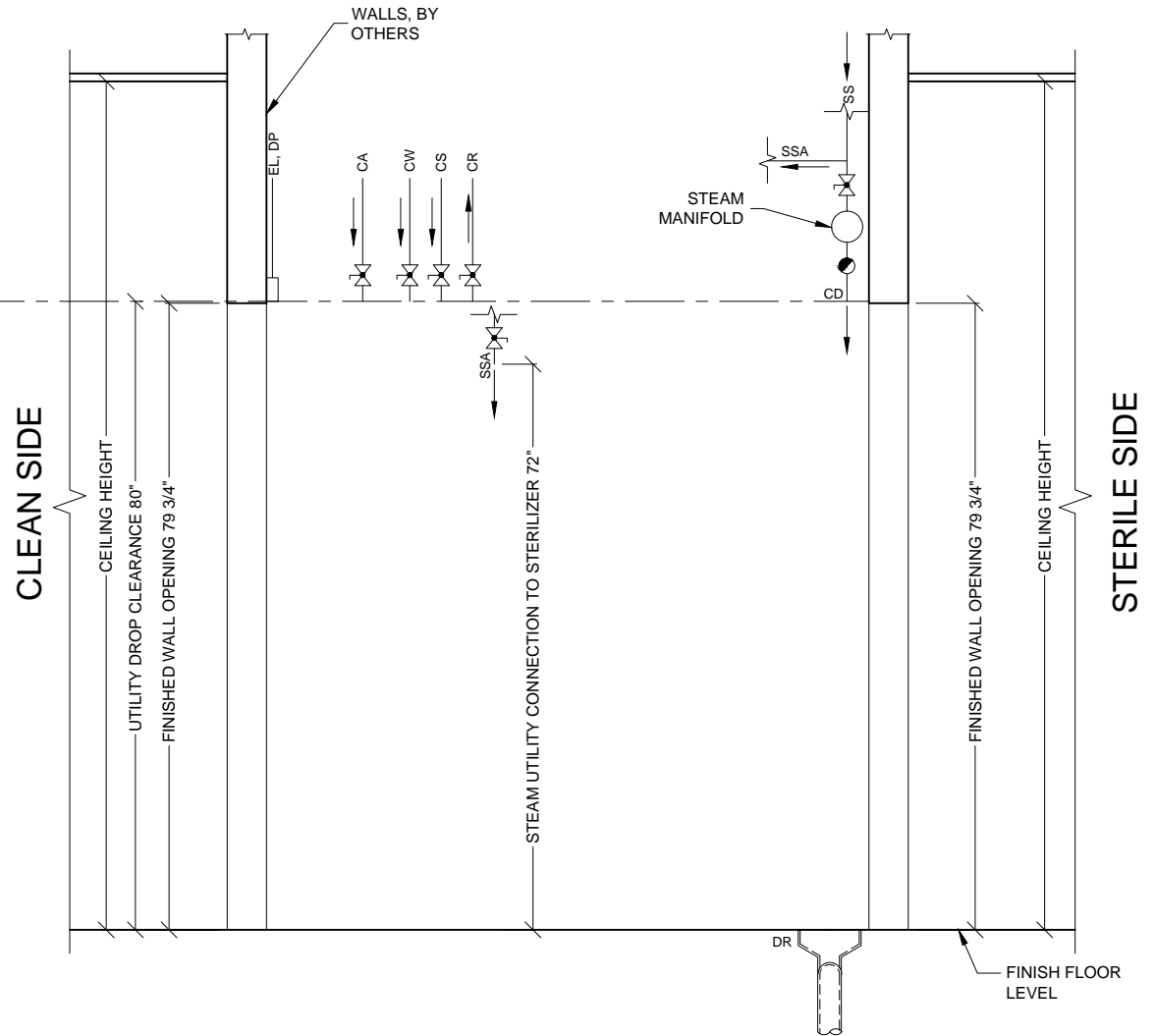
FRONT ELEVATION

Typical site preparation of a right chamber
9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
Scale :	1/2" = 1'	Page :	3 of 12

PHASE 1 CONNECTION POINT FOR UTILITIES ARE TO BE PROVIDED BY OTHERS **BEFORE** EQUIPMENT INSTALLATION BEGINS. PROVIDE SHUT-OFF VALVES AT PHASE 1 CONNECTION POINTS FOR SS, CD, CA, CS, CR, AND CW.

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- SS — STEAM

LEGEND

SYMBOLS

- SERVICE SHUT-OFF VALVE, BY OTHERS
- STEAM TRAP, BY OTHERS

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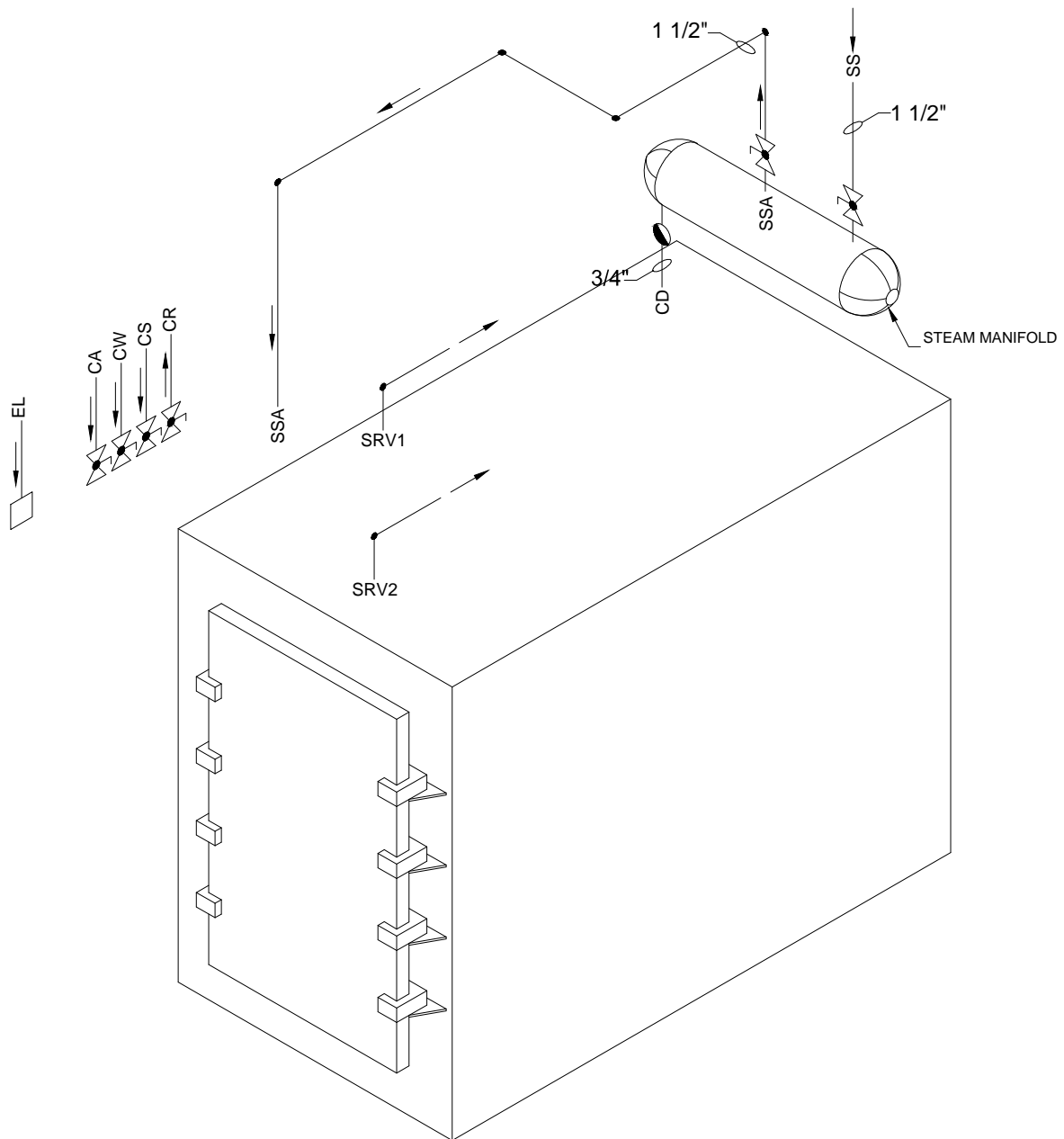
9618-HS2

RIGHT CHAMBER HORIZONTAL STERILIZER

SIDE ELEVATION

Typical site preparation of a right chamber 9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
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CA — COMPRESSED AIR
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 EL — ELECTRICITY FOR MACHINE
 SRV — SAFETY PRESSURE RELIEF VALVE
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LEGEND

SYMBOLS

— SERVICE SHUT-OFF VALVE, BY OTHERS
 — STEAM TRAP, BY OTHERS

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9618-HS2

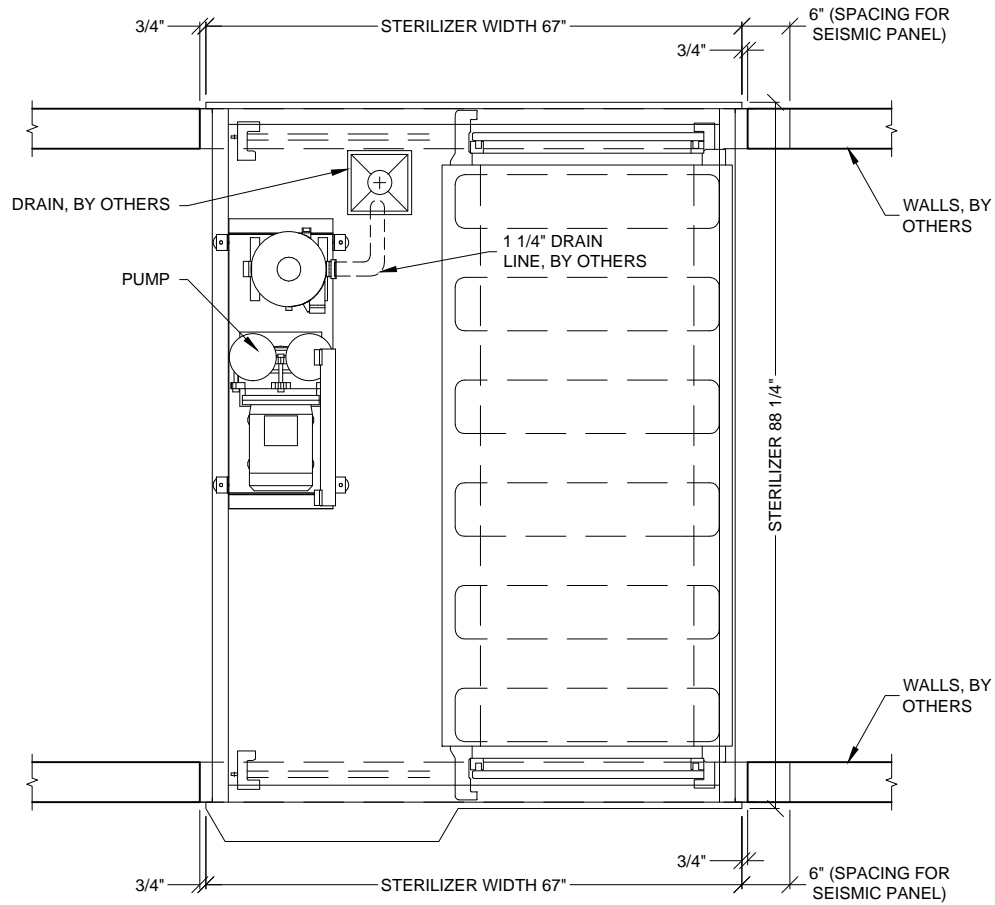
RIGHT CHAMBER HORIZONTAL STERILIZER

TYPICAL ISOMETRIC VIEW

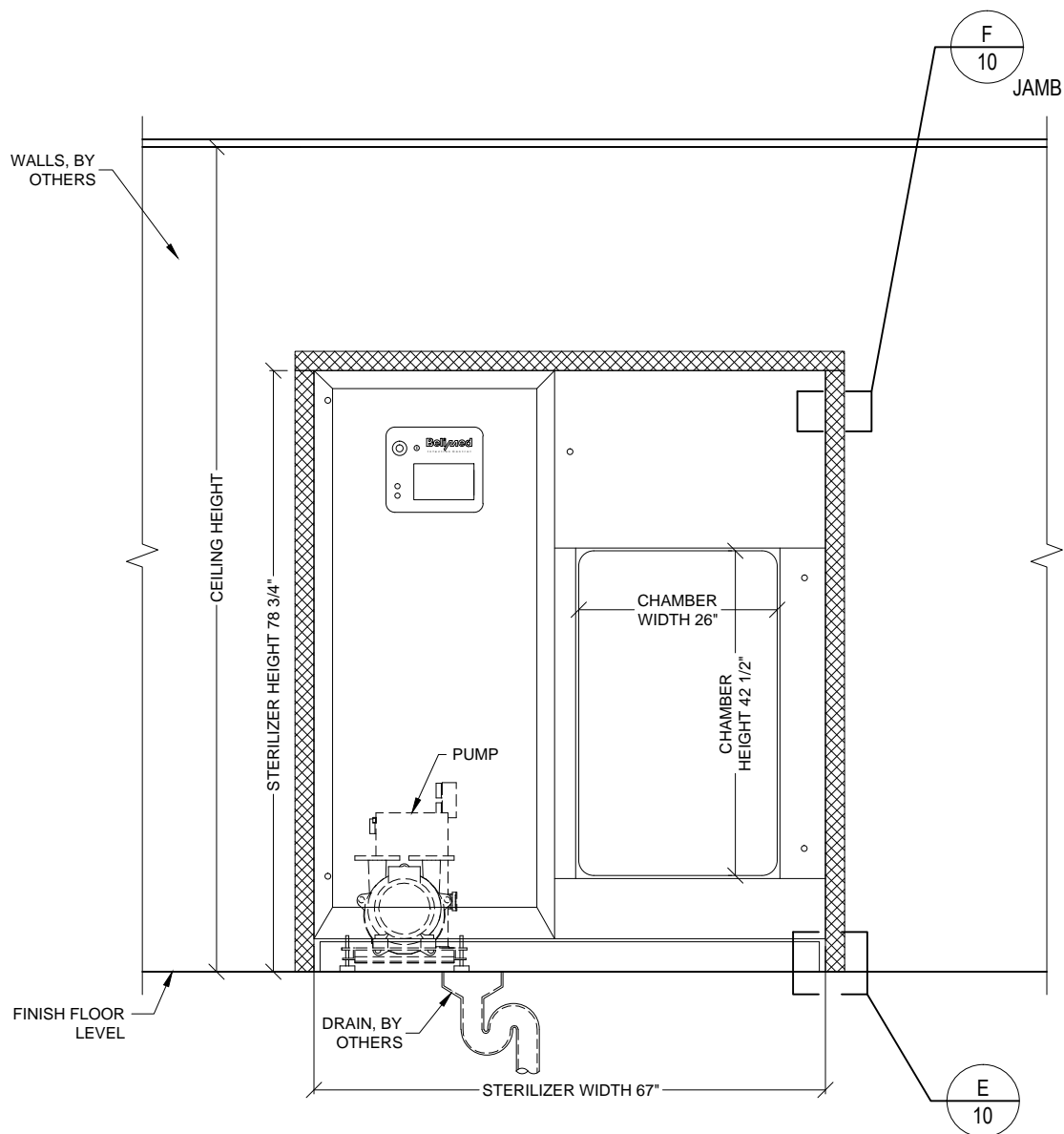
Typical utility piping diagram of a right chamber
 9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
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STERILE SIDE



CLEAN SIDE



LEGEND

HATCH TYPES



STAINLESS STEEL TRIM, BY BELIMED

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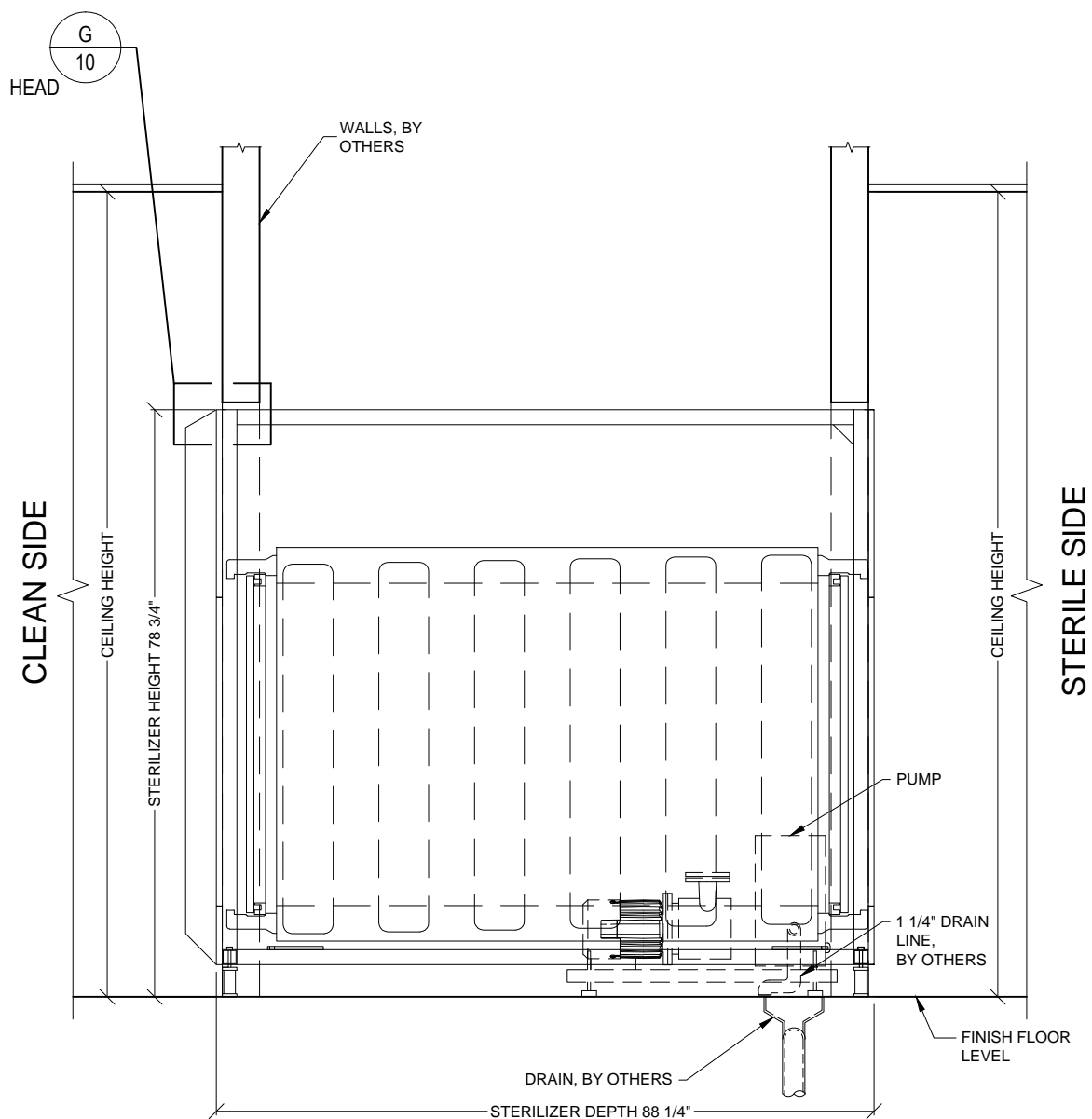
9618-HS2

RIGHT CHAMBER HORIZONTAL STERILIZER

FRONT ELEVATION

Typical equipment layout of a right chamber
9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
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RIGHT CHAMBER HORIZONTAL STERILIZER

SIDE ELEVATION

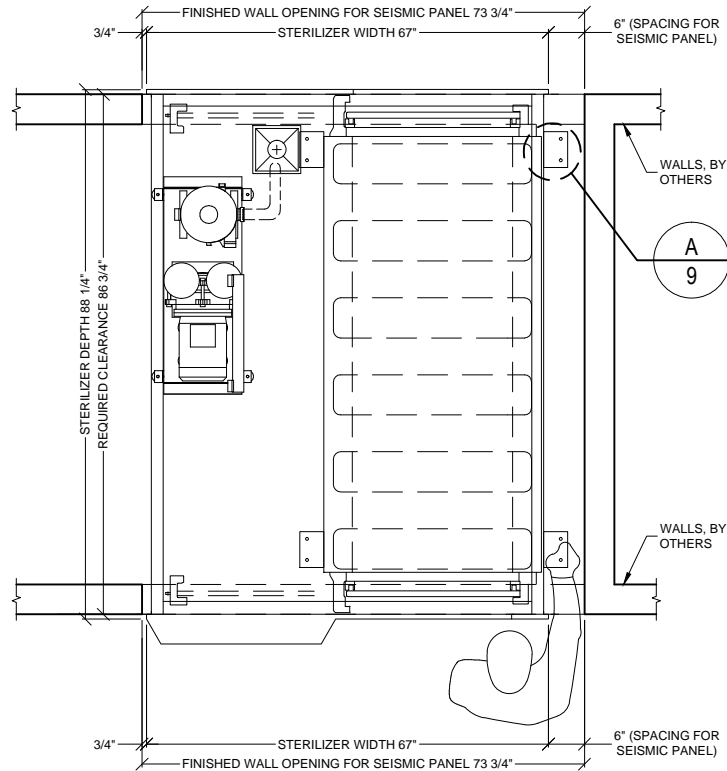
Typical equipment layout of a right chamber
9618-HS2 Horizontal Sterilizer.

Dwg. No. : CUT-9618HS2-RC Rev. : B

Drawn By : A. HERRON Date : 2/26/16

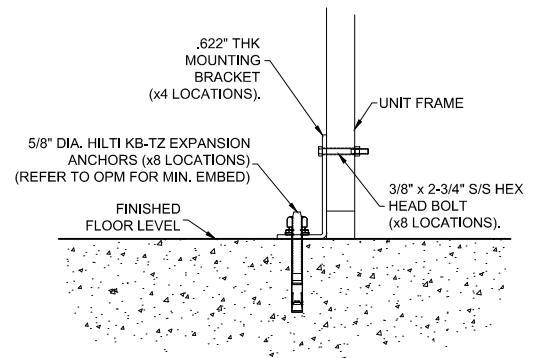
Scale : 1/2" = 1' Page : 8 of 12

STERILE SIDE



CLEAN SIDE

*ENCLOSURE KIT-049 (x2) REQUIRED



*DETAIL FOR REGIONS REQUIRING SEISMIC ANCHORAGE.

TYP. SEISMIC ANCHORING DETAIL
HORIZONTAL STERILIZER
N.T.S.

A

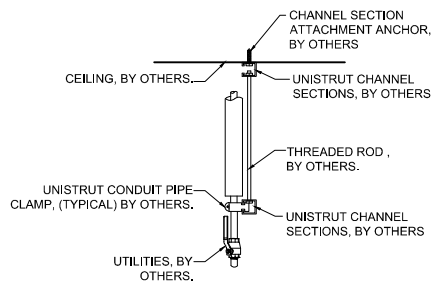
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9618-HS2 RIGHT CHAMBER HORIZONTAL STERILIZER

PLAN VIEW

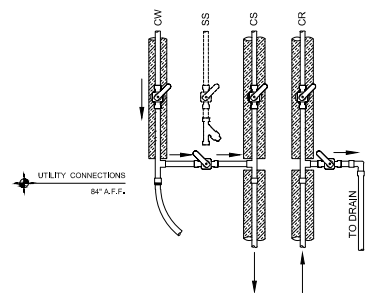
Typical equipment layout for right chamber
9618-HS2 Horizontal Sterilizer where
service clearance requires seismic panel.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
Scale :	3/8" = 1'	Page :	9 of 12



NOTE: REFER TO LOCAL BUILDING CODES AND/OR SEISMIC ANCHORAGE REQUIREMENTS FOR FINAL ATTACHMENT METHOD.

1. UTILITY ATTACHMENT ASSEMBLY SHALL FALL WITHIN THE FOOTPRINT OF THE SPECIFIED EQUIPMENT.
2. REFER TO EQUIPMENT PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR UTILITY LOCATIONS.
3. SEE TECHNICAL SPECIFICATIONS FOR UTILITY SIZING, INPUT REQUIREMENTS, AND FINAL CONNECTIONS.

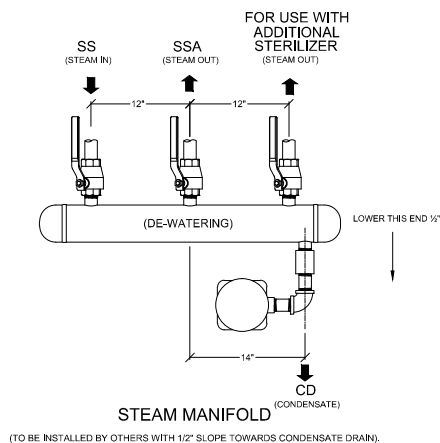


MANUAL SERVICE VALVES, BY OTHERS.

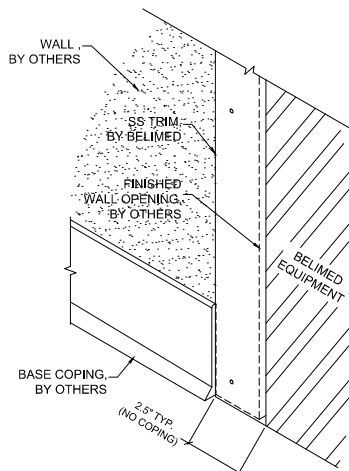
CW - COLD WATER
CS - CHILLED WATER SUPPLY
CR - CHILLED WATER RETURN

B RECOMMENDED TYPICAL CEILING HUNG UTILITY ATTACHMENT DETAIL (SIDE VIEW) N.T.S.

C TYP. (OPTIONAL) BY PASS DETAIL CHILLED WATER CONNECTION N.T.S.

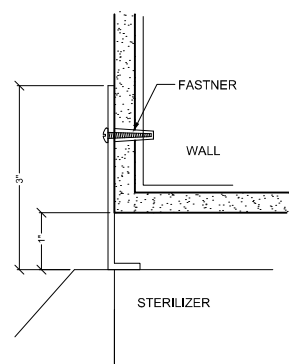
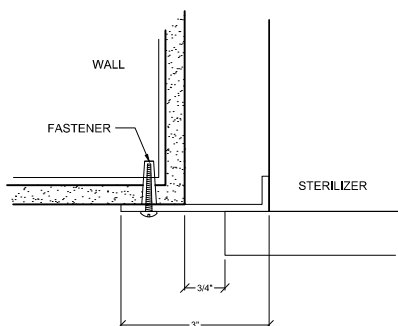


(TO BE INSTALLED BY OTHERS WITH 1/2\" SLOPE TOWARDS CONDENSATE DRAIN).



D TYPICAL STEAM MANIFOLD DETAIL N.T.S.

E BASE COPING AT WALL OPENING N.T.S.



F TYP. TRIM ATTACHMENT DETAIL JAMB - HORIZONTAL STERILIZER N.T.S.

G TYP. TRIM ATTACHMENT DETAIL HEAD - HORIZONTAL STERILIZER N.T.S.

9618-HS2 STERILIZER - TECHNICAL SPECIFICATIONS

REQUIRED INPUTS

Symbol	Description	Value	Utility Notes	Connection Method	Final Utility Conn. By:	
					Others	Belimed
SS	Utility:	Steam	Steam must be dry, saturated, and free from all impurities such as gases, oil, dirt, or other contaminants. Provide adequate steam strainer typical for sterilizers. All steam drops must be piped from top of steam supply line.	Hard Pipe	X	
	Connection Size/Type:	1 1/4 inch / MNPT				
	Pressure:	Min: 40 Max: 65 psig				
	Peak Consumption:	8.8 lbs/min				
CW	*Consumption per Load:	132 lbs	Cold water is used to prime the condensate pump and cool the condensate. Colder water temperatures will result in less water consumption. Optimal temperature is 60°F. Temperature must be less than or equal to 70°F. TDS must be less than or equal to less than 400 ppm. Back flow prevention must be supplied by customer, as per local code.	Hard Pipe	X	
	Utility:	Cold Water				
	Connection Size/Type:	3/4 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
CA	Peak Consumption:	15.4 gal/min	Air must be dry and oil free. Used to operate pneumatic control system.	Flex		X
	*Consumption per Load:	225 gal				
	Utility:	Compressed Air				
	Connection Size/Type:	1/4 inch / MNPT				
EL	Pressure:	Min: 70 Max: 100 psig	Junction Box with Receptacle. NEMA 15-30R to NEC local codes. Grainger part No. 5Z889.	Receptacle		X
	Peak Consumption:	1 CFM				
	*Consumption per Load:	10 ft³				
	Utility:	Electric				
SRV1	Connection Type:	Receptacle	Provide sufficient air exhaust to remove 1 kW heat dissipation from service room.		X	
	Voltage (Nominal):	208 VAC				
	Voltage (Phase):	3 Phase				
	Voltage (Frequency):	60 Hz				
SRV2	Circuit Protection:	25 Amps	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe with Union	X	
	Peak Consumption:	4.8 kW				
	*Consumption per Load:	2.5 kW-h				
	Utility:	Equipment Area Exhaust				
SSA	Connection Type:	Exhaust return grille	Pipe from manifold to sterilizers by others.	Hard Pipe	X	
	Utility (Chamber):	Safety Pressure Relief Valve				
	Outlet size:	1 1/2 inch / FNPT				
	Utility (Jacket):	Safety Pressure Relief Valve				
DP	Outlet size:	1 inch / FNPT	Location: Ethernet port should be located within 5 ft of machine within the enclosed service area of the sterilizer.		X	
	Utility:	Data Port				
	Connection Method:	TCP/IP Ethernet to hospital network				
	Connection Quantity:	One (1) RJ45 Ethernet port per sterilizer				
CD	Facility Wiring:	*Cat-5, Cat-6 or Cat-6e wire	* (By others)			X
	NIC/Com Speed:	10/100 Mbps Networking Port (RJ45)				
	Broadcast Method:	Unicast				
	MTU Size:	1500				
DR	Final Connection:	Belimed provided patch cables for final connection	Provide flush mounted floor sink and trap per local code.	1 1/4" Copper Pipe	X	
	Port IP Setup:	Each RJ45 Ethernet Port with individual static IP address				
	Utility:	Open Drain				
	Connection Size:	1 1/4 inch				
	Discharge Flow Rate:	16.4 gal/min	In accordance with ISO3746: 1995 Testing Standards.			
	*Consumption per Load:	241.5 gal				
	Medium:	Noise Radiation				
	Radiation (Net):	65 dBA				
	Medium:	Heat Radiation	Heat dissipated into service room with ambient temperature of 86°F.			
	Radiation (Net):	1 kWh				
	Utility:	Condensate				
	Connection Size/Type:	3/4 inch / FNPT				

ESTIMATED EMISSIONS

DR	Utility:	Open Drain	Provide flush mounted floor sink and trap per local code.	1 1/4" Copper Pipe	X	
	Connection Size:	1 1/4 inch				
	Discharge Flow Rate:	16.4 gal/min				
	*Consumption per Load:	241.5 gal				
	Medium:	Noise Radiation	In accordance with ISO3746: 1995 Testing Standards.			
	Radiation (Net):	65 dBA				
	Medium:	Heat Radiation				
	Radiation (Net):	1 kWh				
CD	Utility:	Condensate	Condensate removal by customer per local code.	Hard Pipe	X	
	Connection Size/Type:	3/4 inch / FNPT				

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9618-HS2

RIGHT CHAMBER HORIZONTAL STERILIZER

TECHNICAL SPECIFICATIONS

Technical Data for the installation of a Belimed right chamber 9618-HS2 Horizontal Sterilizer.

Dwg. No. :	CUT-9618HS2-RC	Rev. :	B
Drawn By :	A. HERRON	Date :	2/26/16
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Optional utilities for chilled water cooling (used for reduction of cold water consumption).

CS	Utility:	Chilled Water Supply	Feed water at ~50°F with temperature difference ΔT of 15 K.	Insulated Hard Pipe	X	
	Connection Size/Type:	1 1/4 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
	Peak Consumption:	678 kBTU/hr				
	*Consumption per Load:	169 kBTU				
CR	Utility:	Chilled Water Return	Pressure difference ΔP CS/CR must be greater than 7 PSIG.	Insulated Hard Pipe	X	
	Connection Size/Type:	1 1/4 inch / MNPT				
CW	Utility:	Cold Water	Cold water is used to prime the condensate pump. Water should be softened to 0-60 ppm. Back flow prevention must be supplied by customer, as per local code.	Flex		X
	Connection Size/Type:	1/2 inch / MNPT				
	Peak Consumption:	2.2 gal/min				
	*Consumption per Load:	2.6 gal				

PHYSICAL SPECIFICATIONS

	Parameter:	Carry-In Dimensions	Machine Alone (i.e. removed from packaging)
	Height:	77.8 in	
	Width:	39 in	
	Length:	88.2 in	
	Parameter:	Weights	
	Transport Weight:	6283 lbs	Transport Weight = Machine + Crating
	Operating Weight:	6106 lbs	Operating Weight = Machine + Load
	OSHPD Number:	OPM-0237-13	

*Consumptions calculated under pre-vac cycle with 45 psig at 270 F and water temperature of 68 F.

Additional Information:

- MNPT = Male pipe thread - FNPT = Female pipe thread
- Others must provide service valves and strainers for steam and water supply.
- All utility supplies and connections are other's responsibility.
- Doors open manually. Automatic door option is available.
- Left or Right side chamber is available.

TS-9618-HS2_RevD



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9618-HS2

RIGHT CHAMBER HORIZONTAL STERILIZER

TECHNICAL SPECIFICATIONS CONT	Dwg. No. :	CUT-9618HS2-RC	Rev. : B
	Drawn By :	A. HERRON	Date : 2/26/16
	Scale :	NONE	Page : 12 of 12

Technical Data for the installation of a Belimed right chamber 9618-HS2 Horizontal Sterilizer.