

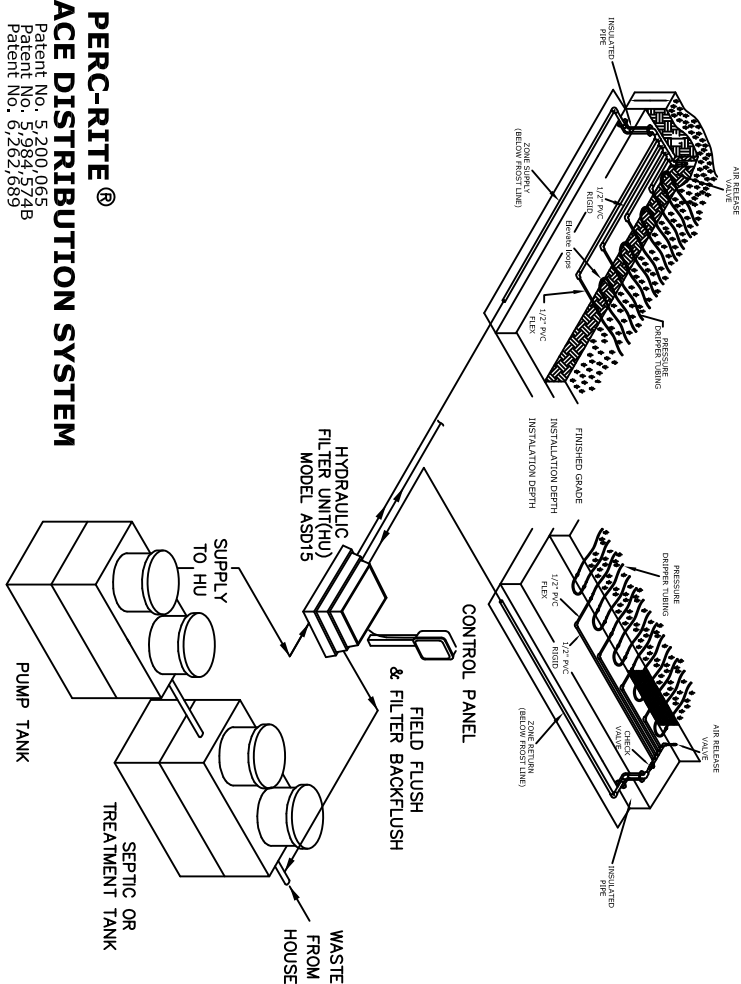
LOCATION MAP

SITE DIRECTIONS

PERC-RITE®

SUBSURFACE DISTRIBUTION SYSTEM

Patent No. 5,200,065
Patent No. 5,984,574B
Patent No. 6,262,689



SCOPE: Household Sewage will flow by gravity through a septic/treatment tank, then to a drip dispersal equalization pump tank. From the drip pump tank the effluent is filtered through 115 micron disc filters and dispersed through a drip dispersal piping network. The network is composed of pressure compensating drip tubing laid on contour and managed by the Perc-Rite® process.

has designed the drip dispersal system for the specific site in accordance with findings recommendations with the site evaluator/soils evaluator, who is the consultant for the owner. American's pre-engineered system has been selected for the site by the owners representative. American only certifies the system mechanical application for this site and makes no representation for soil suitability or other site engineering code requirements.

CONTENTS:

Page 1 Cover Sheet

Page 2 Site Layout Plan

Page 3 Hydraulic Profile, Pump Tank, & Zone Details

Page 4 Control Details, Pump Curve, & Cool Guide

Page 5 Drip Hydraulic Unit Details

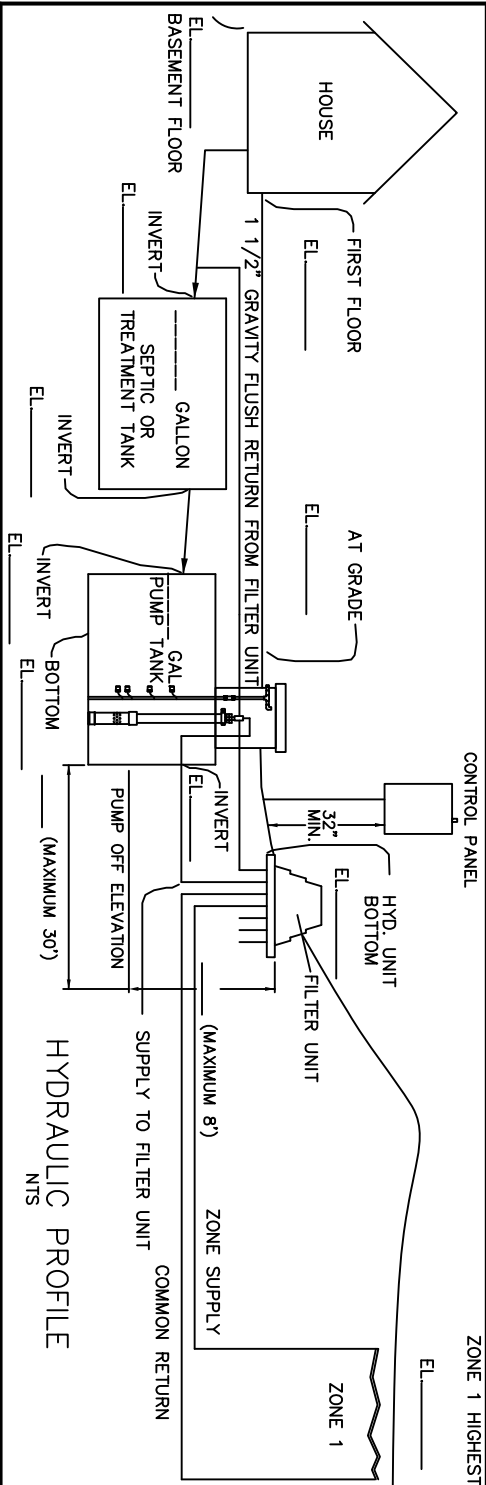
Page 6 Drip Detail Schematics

Page 7 Drip Calculation Sheet

Page 8 Construction Notes

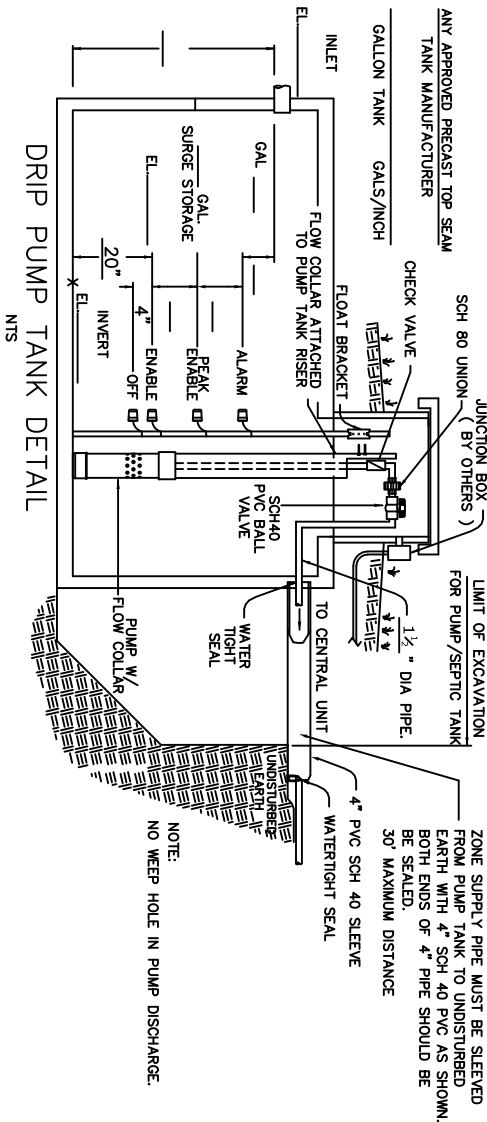
AMERICAN MANUFACTURING CO.

22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americanonsite.com	
PROJECT NAME :	DRAFTER: DATE:
JOB NAME	CHECKED: DATE:
	APPROVED: DATE:
COUNTY :	TITLE :
COUNTY, STATE	COVER SHEET
	PERC-RITE® DRIP
	DESIGN
SCALE : NTS	SHEET: 1 OF 8



Elevations are based on referenced site plan. During installation elevations must be checked to verify that system will function as designed. There must be at least 2% gravity fall from House Sewer main to Pretreatment Tank inlet. There must be at least 2% gravity fall from the base of Filter Unit to the Pretreatment Unit and the off float in the pump tank should not exceed 8' vertical elevation from base of Filter Unit.

ZONE DETAIL Z
(NOT TO SCALE)



NOTE: Install tubing on contour at ___" depth.
Install Supply and Return Lines at ___' (Below frost line) Minimize site activity, NO machinery on site except minimum required to install tubing.
SITE PROTECTION IS VERY IMPORTANT!

NOTE: -Zone drip detail (Z___)
with ___ laterals, ___ tubing runs per lateral for a total of ___ tubing runs @ ___' length = ___ total LF tubing.

AMERICAN MANUFACTURING CO.

22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americanmfg.com

PROJECT NAME :

DRAFTER: DATE:

CHECKED: DATE:

APPROVED: DATE:

TITLE :

JOB NAME

COUNTY :

COUNTY, STATE

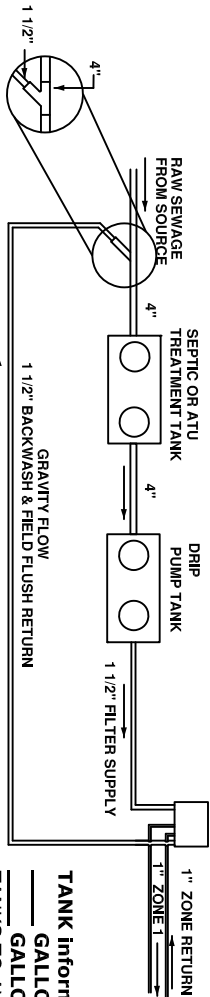
HYDRAULIC PROFILE,
DRIp & ZONE
DETAILS

SCALE : NTS

SHEET: 3 OF 8

SITE PLAN (SYSTEM LAYOUT SKETCH)

SCALE: 1" = _____' ±



TANK EQUIPMENT AREA
SCHEMATIC PLAN
NOT TO SCALE

TANK Information:
_____ GALLON _____ TANK,
_____ GALLON DRIIP PUMP TANK, INSTALL
TANKS TO AVOID SWALES OR LOW LYING
AREAS!

AMERICAN MANUFACTURING CO.			
22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americanmfg.com			
PROJECT NAME :		DRAFTER:	DATE:
JOB NAME		CHECKED:	DATE:
TITLE :		APPROVED:	DATE:
COUNTY :		SITE LAYOUT PLAN	
COUNTY, STATE		SCALE :	
		SHEET: 2 OF 8	

AMERICAN PERC-RITE® CONTROLS

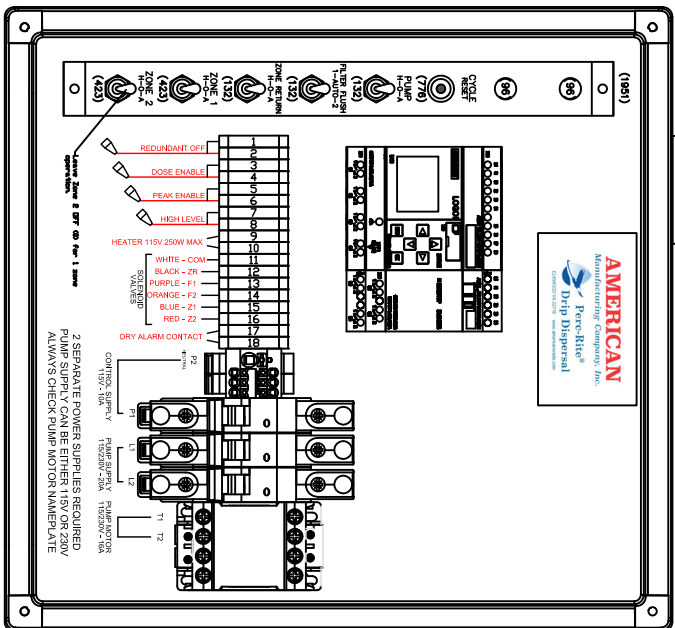
American Manufacturing Co., Inc. P.O. Box 97 Elkwood, VA 22718
Simplex 2 Zone PERC-RITE Drip System



AMERICAN ONSITE CONTROLS
AMERICAN MANUFACTURING COMPANY INC.
P.O. BOX 97 ELKWOOD, VA 22718
(800) 345-3132 www.americanon-site.com

TORQUE SETTINGS			
TERMINAL	WIRE SIZE	TORQUE	SCREW
1-12	10-12	1/2	1/2
1-12	10-12	1/2	1/2
1-12	10-12	1/2	1/2
1-12	10-12	1/2	1/2

ALL POWER SUPPLY CONNECTIONS PROVIDED BY OTHERS



INSTALLATION NOTES:
1. EXISTING ELECTRICAL PANELS AND WIRING IN THE MANUAL SERVICE ATTEMPTING TO INSTALL ANY CONTROLS.
2. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
3. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
4. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
5. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
6. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
7. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
8. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
9. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.
10. EXISTING ELECTRICAL PANELS MUST BE CAPABLE OF HANDLING THE ADDITIONAL LOAD OF THE DRP SYSTEM.

2 ZONE DRP CONTROL SYSTEM			
INSTALLATION GUIDE FOR DRP SERIES CONTROL			
1 PHASE, 115/250V, NEMA 4X			
MODEL	DATE	VERSION	REVISION
DP022-SAB124-ALLRAX(1,3,4)	08/26/2025	MPH	1

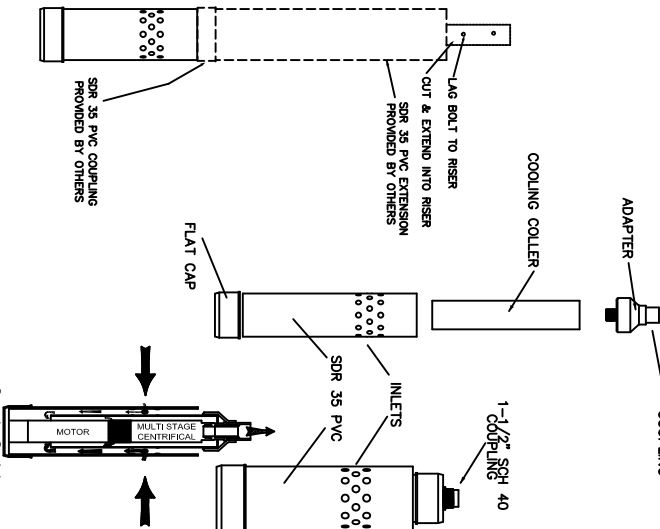
COOL GUIDE

FLOW COLLAR (COOL GUIDE) SPECIFICATION

The laminar flow collar shall be made of non-corrosive, glueable PVC and have sufficient length to extend from the bottom of the pump intake to provide sufficient cooling flow for the motor. The dimension between the inner collar and the pump motor shall not restrict flow to the pump intake, but will provide for scouring of surfaces. The laminar flow collar shall be a "Cool Guide" as manufactured by American Manufacturing Company, Inc. Patent # 6,262,689.

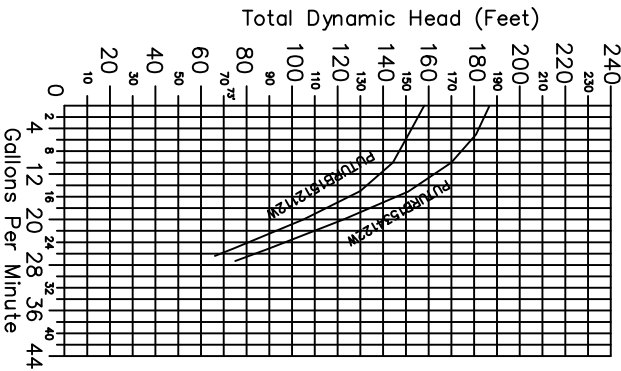
"COOL GUIDE" INSTALLATION INSTRUCTIONS

1. Measure the distance from the bottom of the tank to 6" down from the top of the riser. Cut the extension pipe (by others) to the length necessary to reach this height. Cut 1/2" of the pipe down 12" to 18" away from the top of the pipe for pump discharge pipe.
2. Glue the extension coupling (by others) to the extension pipe and to the Cool Guide.
3. For repairs: glue on the Cool Guide flat cap and place the Cool Guide firmly in the tank. Attach the extension to the riser, with the anchors as shown.
4. For new construction: anchor the flat cap to the bottom of the tank in the proper location for the Cool Guide. The Cool Guide should be firmly not be glued to the device. Attach the extension to the riser with the anchors as shown.
5. Place the pipe dope on the Cool Guide adapter threads and thread them into pump discharge.
6. Attach cooling collar to adapter with set screw provided.
7. Glue pipe into flow collar and with pump attached, lower into the device. Attach the extension to discharge pipe, valves, and connect electrical as specified.
8. Attach to discharge pipe, valves, and connect electrical as specified.



PUMP CURVE

15 GPM



PUTURB151212W 1/2HP, 115V, 1PH, 2WIRE
PUTURB151212W 1/2HP, 230V, 1PH, 2WIRE
PUTURB153412W 3/4HP, 230V, 1PH, 2WIRE
15 GPM @ 125 FT
BACKWASH TDH

AMERICAN MANUFACTURING CO.

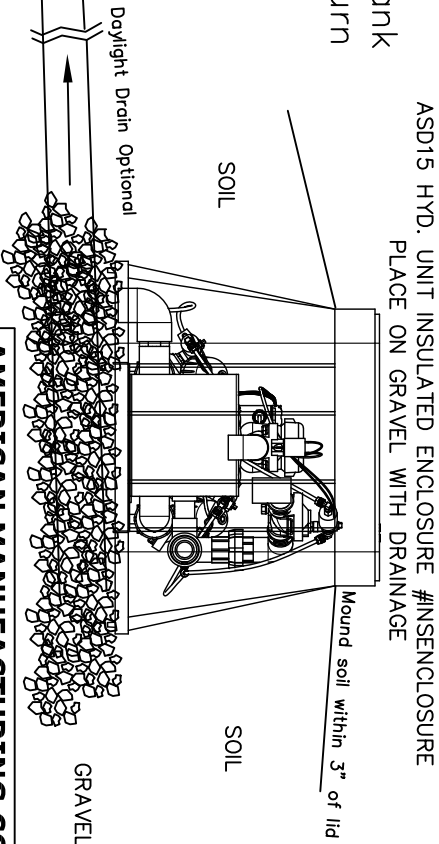
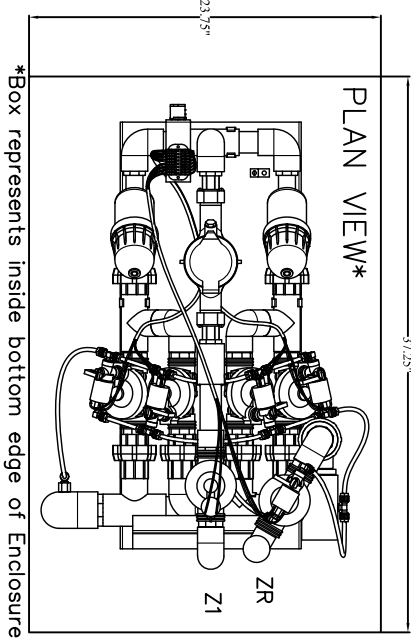
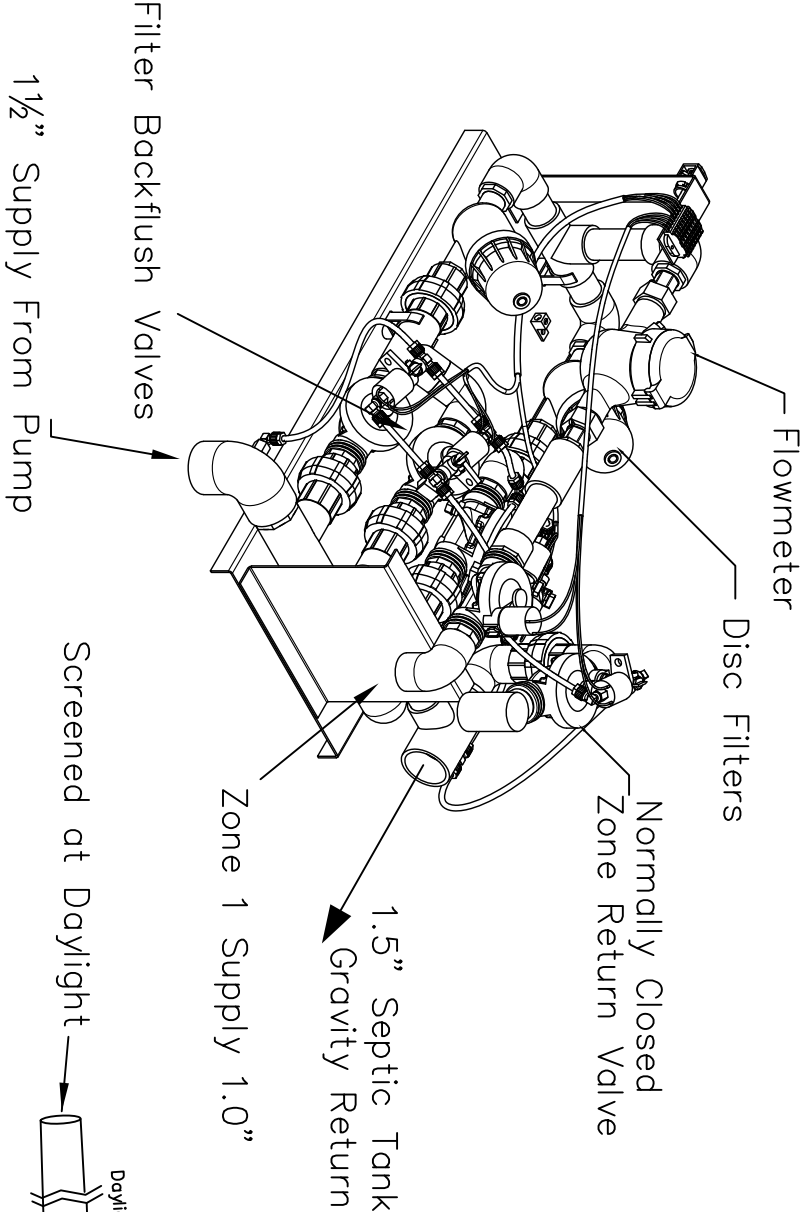
22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americanon-site.com

PROJECT NAME :	DRAWER:	DATE:
JOB NAME	CHECKED:	DATE:
COUNTRY :	APPROVED:	DATE:
COUNTY, STATE	TITLE :	
	CONTROL, COOL	
	GUIDE & PUMP	
	CURVE DETAILS	

SCALE : NTS SHEET: 4 OF 8

STANDARD PERC-RITE HYD. UNIT DETAILS

AMERICAN MFG. COMPANY TWO-FILTER – 15 GPM
HYDRAULIC UNIT



ASD15 & WD15 Hydraulic units to be placed on a bed of gravel for drainage.
If ponding or groundwater is a possibility, a screened drain to daylight is required beneath hydraulic unit.

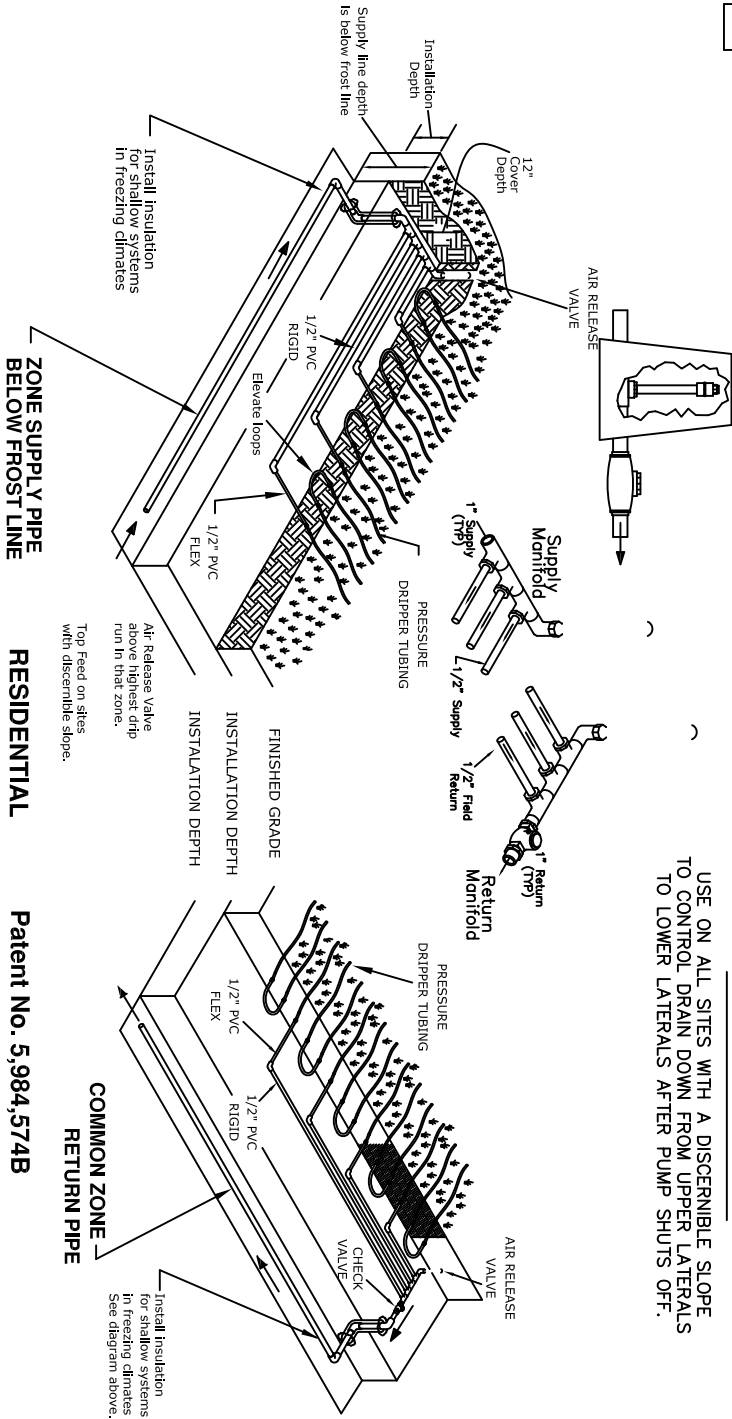
AMERICAN MANUFACTURING CO.	
22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americononline.com	
PROJECT NAME :	DRAFTER: DATE:
JOB NAME	CHECKED: DATE:
	APPROVED: DATE:
TITLE :	DRIP HYDRAULIC UNIT DETAILS
COUNTRY :	
COUNTY, STATE	
SCALE : NTS	SHEET: 5 OF 8

STANDARD RESIDENTIAL DRIP SYSTEM DETAILS

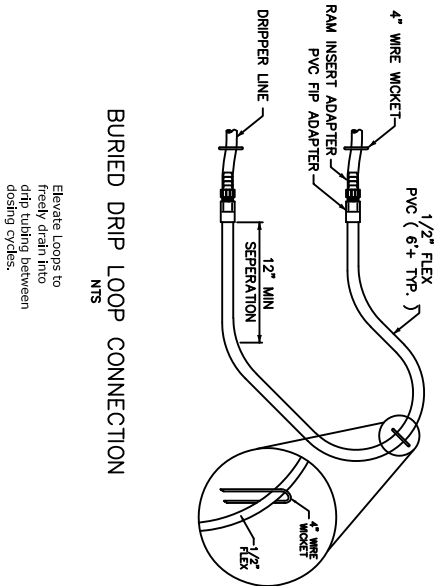
1

TOP FEED MANIFOLDS

USE ON ALL SITES WITH A DISCERNIBLE SLOPE
TO CONTROL DRAIN DOWN FROM UPPER LATERALS
TO LOWER LATERALS AFTER PUMP SHUTS OFF.



2



Tubing and Supply Pipe Installation:

1. All tubing shall be installed along the site contour (each pull of drip tubing to follow grade).
2. All PVC pipe and fittings shall be PVC SCH 40 Type 1 rated for pressure applications.
3. All glued joints shall be cleaned, deburred and primed with colored (dyed) PVC primer prior to being glued.
4. All cutting of PVC pipe, flexible PVC and dripper tubing of size 1 1/2" or smaller shall be accomplished with ratcheting or powered blade type pipe cutters approved by American Manufacturing Co., Inc. **No sawing of PVC, flexible PVC or dripper tubing of size 1 1/2" or smaller allowed.**
5. All PVC pipes, flexible PVC and dripper tubing in the work area shall have the ends covered with duct tape prior to final gluing to prevent construction debris from entering the pipe. Prior to gluing, all joints shall be inspected for and cleared of any construction debris. Pipe must be clear of debris, gravel, dirt, etc.
6. Drip supply and return lines and manifolds to be installed at adequate depth to prevent freezing.
7. Drip manifolds must be installed according to design for proper air and vacuum release functions.
8. Horizontal spacing between the dripper lines and the installation depth to be as specified in design.
9. All force mains shall be flushed and tested for leaks during system startup. Uncovered force mains shall be visibly inspected for leaks.

AMERICAN MANUFACTURING CO.

22011 GREENHOUSE RD. ELKWOOD VA 22718 www.americanmfg.com

PROJECT NAME :	DRAFTER:	DATE:
JOB NAME	CHECKED:	DATE:
	APPROVED:	DATE:
	TITLE :	
COUNTRY :	DIP DETAIL SCHEMATICS	
COUNTY, STATE	SCALE : NTS	SHEET: 6 OF 8

