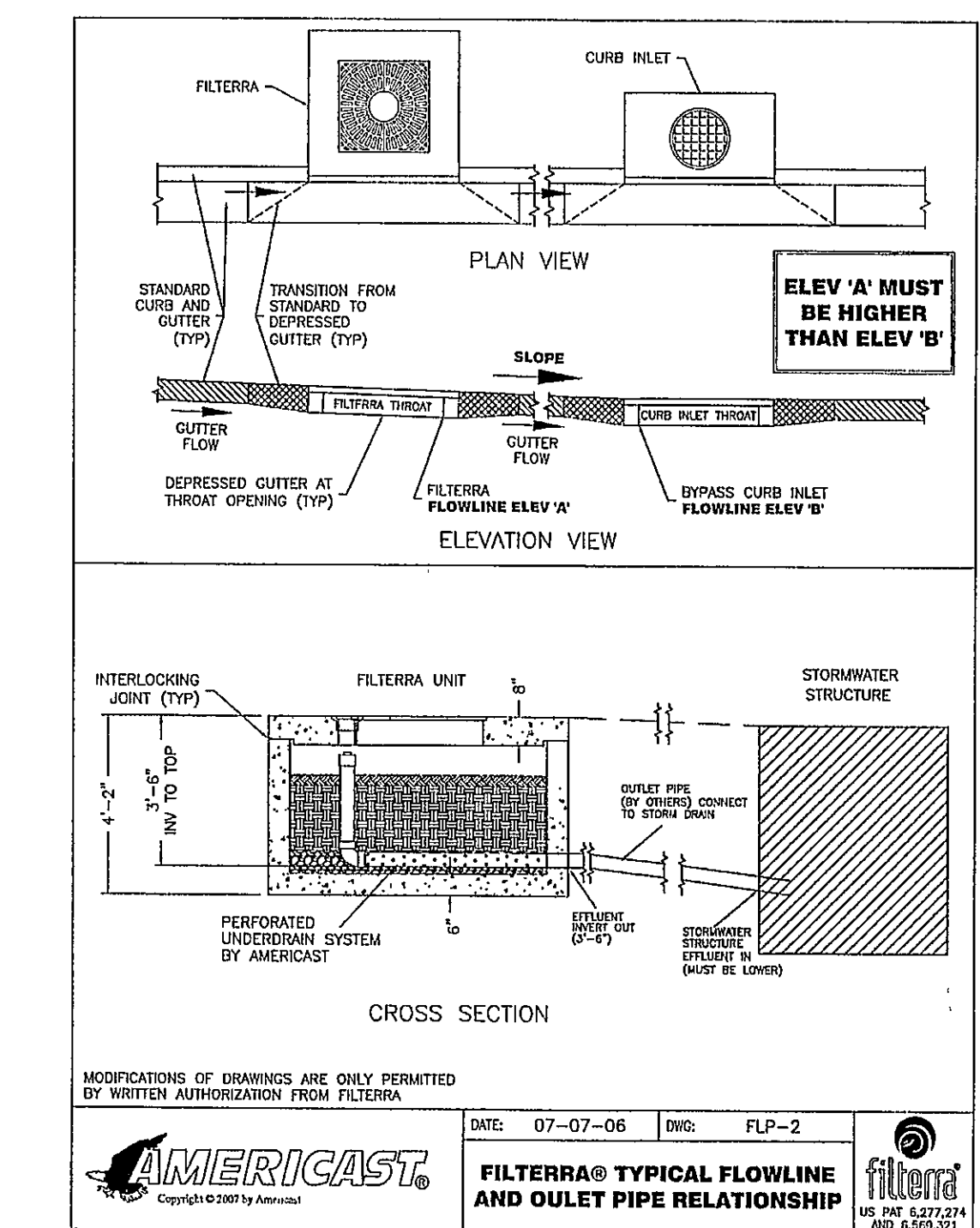
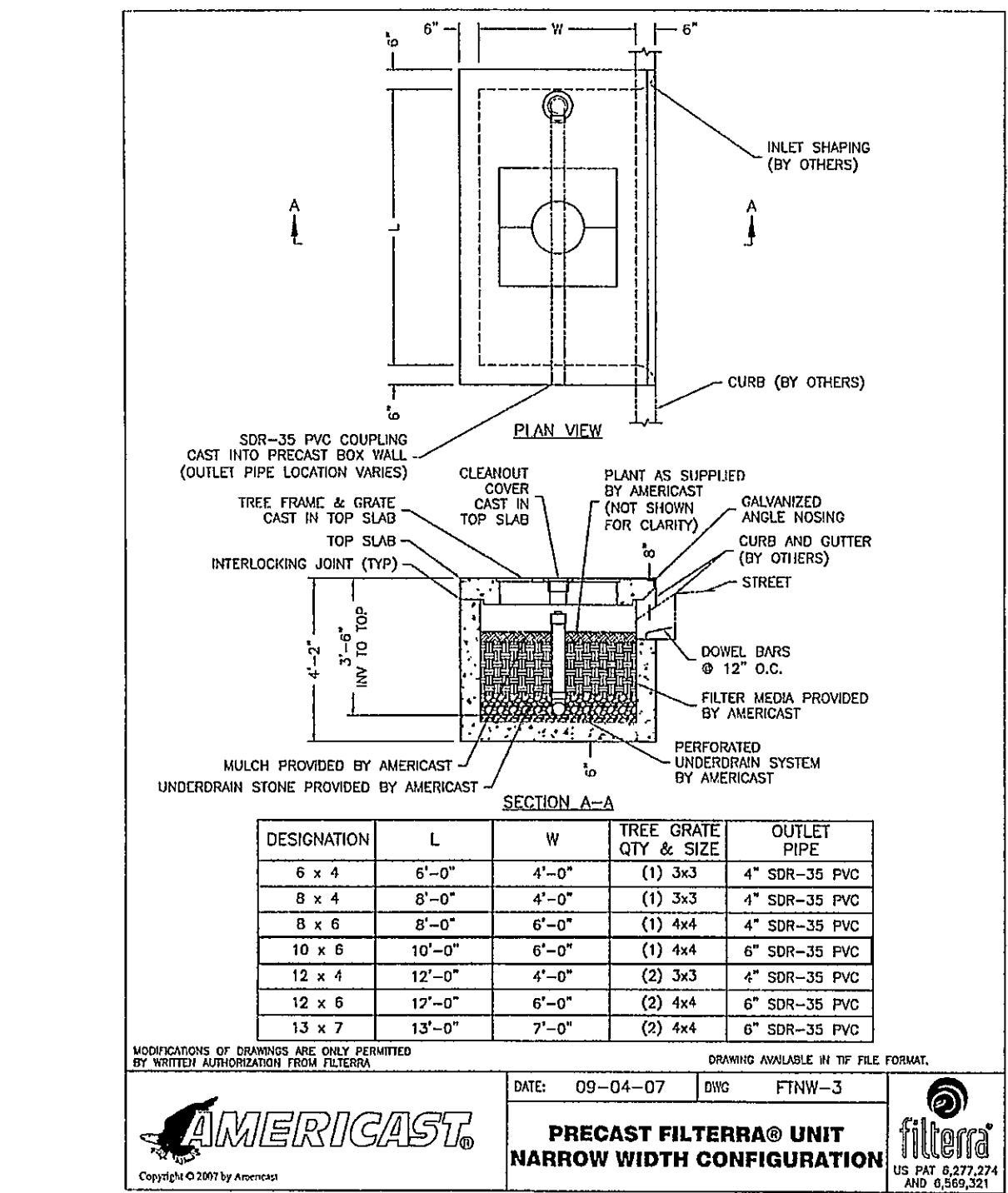


WESTERN VIRGINIA WATER AUTHORITY -- CONSTRUCTION STANDARDS	
REVISION DATE	DESCRIPTION
07/01/04	03/01/06
TYPE "A" SINGLE RESIDENTIAL WATER SERVICE (LINE PRESSURE UNDER 80 PSI)	
W-01	

WESTERN VIRGINIA WATER AUTHORITY -- CONSTRUCTION STANDARDS	
REVISION DATE	DESCRIPTION
07/01/04	03/01/06
SAMPLING STRUCTURE DETAIL	
S-07	

WESTERN VIRGINIA WATER AUTHORITY -- CONSTRUCTION STANDARDS	
REVISION DATE	DESCRIPTION
07/01/04	03/01/06
FIRE HYDRANT ASSEMBLY	
W-18	



FILTERRA CONSTRUCTION & INSTALLATION NOTES:

1. EACH UNIT SHALL BE CONSTRUCTED AT THE LOCATIONS AND ELEVATIONS ACCORDING TO THE SIZES SHOWN ON THE APPROVED DRAWINGS. ANY MODIFICATIONS TO THE ELEVATION OR LOCATION SHALL BE AT THE DIRECTION OF AND APPROVED BY THE ENGINEER.
2. IF THE FILTERRA IS STORED BEFORE INSTALLATION, THE TOP SLAB MUST BE PLACED ON THE BOX USING THE 2x4 WOOD PROVIDED, TO PREVENT ANY CONTAMINATION FROM THE SITE. ALL INTERNAL FITTINGS SUPPLIED (IF ANY), MUST BE LEFT IN PLACE AS PER THE DELIVERY.
3. THE UNIT SHALL BE PLACED ON A COMPACTED SUBGRADE WITH A MINIMUM 6-INCH GRAVEL BASE MATCHING THE FINAL GRADE OF THE CURB LINE IN THE AREA OF THE UNIT. THE UNIT TO BE PLACED SUCH THAT THE UNIT AND TOP SLAB MATCH THE GRADE OF THE CURB IN THE AREA OF THE UNIT.
4. OUTLET CONNECTIONS SHALL BE ALIGNED AND SEALED TO MEET THE APPROVED DRAWINGS WITH MODIFICATIONS NECESSARY TO MEET SITE CONDITIONS AND LOCAL REGULATIONS.
5. ONCE THE UNIT IS SET, THE INTERNAL WOODEN FORMS AND PROTECTIVE MESH COVER MUST BE LEFT INTACT. REMOVE ONLY THE TEMPORARY WOODEN SHIPPING BLOCKS BETWEEN THE BOX AND TOP SLAB. THE TOP LID SHOULD BE SEALED ONTO THE BOX SECTION BEFORE BACKFILLING, USING A NON-SHRINK GROUT, BUTYL RUBBER OR SIMILAR WATERPROOF SEAL. THE BOARDS ON TOP OF THE LID AND BOARDS SEALED IN THE UNIT'S THROAT MUST NOT BE REMOVED. THE SUPPLIER (AMERICAST OR ITS AUTHORIZED DEALER) WILL REMOVE THESE SECTIONS AT THE TIME OF ACTIVATION. BACKFILLING SHOULD BE PERFORMED IN A CAREFUL MANNER, BRINGING THE APPROPRIATE FILL MATERIAL UP IN 6" LIFTS ON ALL SIDES. PRECAST SECTIONS SHALL BE SET IN A MANNER THAT WILL RESULT IN A WATERTIGHT JOINT. IN ALL INSTANCES, INSTALLATION OF FILTERRA UNIT SHALL CONFORM TO ASTM SPECIFICATION C891 "STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST UTILITY STRUCTURES", UNLESS DIRECTED OTHERWISE IN CONTRACT DOCUMENTS.
6. CURB AND GUTTER CONSTRUCTION (WHERE PRESENT) SHALL ENSURE THAT THE FLOWLINE OF THE FILTERRA UNITS IS AT A GREATER ELEVATION THAN THE FLOWLINE OF THE BYPASS STRUCTURE OR RELIEF (DROP INLET, CURB CUT OR SIMILAR). FAILURE TO COMPLY WITH THIS GUIDELINE MAY CAUSE FAILURE AND/OR DAMAGE TO THE FILTERRA ENVIRONMENTAL DEVICE.
7. EACH FILTERRA UNIT MUST RECEIVE ADEQUATE IRRIGATION TO ENSURE SURVIVAL OF THE LIVING SYSTEM DURING PERIODS OF DRIER WEATHER. THIS MAY BE ACHIEVED THROUGH GUTTER FLOW OR THROUGH THE TREE GRATE.

BOTTOM LOCK SCREENING OR APPROVED EQUAL

FENCE PRODUCTS SPECIFICATIONS

BOTTOM LOCK SIZE SPECS

Bottom Lock Size	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
Bottom Lock 2"	1 1/4"	2"	9 OR 11	92	10 LINEAR FEET		
Bottom Lock 2 1/4"	1 1/4"	2 1/4"	11 OR 11	78	10 LINEAR FEET		
Bottom Lock 1 1/4"	1 1/4"	1 1/4"	6, 9 OR 11	97	10 LINEAR FEET		

MATERIALS
The Bottom Lock product is extruded from High Density Polyethylene (HDPE), color pigments and ultra violet (UV) inhibitors, specifically designed to retard the harmful effects of the sun and lengthen the life of the product.

DURABILITY
HDPE Fence Products are resistant to severe weather conditions, salt water, sand, road dirt, most acids, alcohols, alkalines, petroleum distillates, and common environmental pollutants.

MAINTENANCE
Pressure cleaning of surface contaminants is quickly accomplished with plain water.

WINDLOAD DISCLAIMER
Filterra will not be responsible for fence damage resulting from wind load conditions due to insufficient structural support.

HDPE TECHNICAL PROPERTIES

Property	Value
Melt Index	(LA) A low melt index indicates improved stress and crack resistance.
Density	1.957 Polyethylene ranges anywhere from .914 to .960 in density. A higher density yields maximum stiffness without becoming overly brittle.

LIMITED WARRANTY
Bottom Lock carries a 25-year, pro-rata warranty against leakage under normal conditions. Write Filterra Extrusion for full warranty information.

INSTALLATION INSTRUCTIONS

1. Insert end horizontally in final full diameter at bottom of fence with open side facing up.
2. Insert vertical slot with knockout and downward. Slot engages and interlocks with bottom rail.
3. Push the vertical slot into the horizontal channel to lock in place.
4. Enjoy a beautiful fence that was simple to install!

GENERAL FENCE NOTES:

1. SCREENING SLATS TO BE INSTALLED ON 11 GAUGE 6" CHAIN LINK FENCE TYP.
2. ENTRANCE GATE SHALL BE A DOUBLE GATE THAT SWINGS TOWARDS THE ENTRANCE TO THE SITE. THE GATE SHALL BE A TOTAL WIDTH OF 20' WITH TWO INDEPENDENT SIDES.
3. THE GATE SHALL BE SCREENED WITH THE SAME MATERIAL AS THE REMAINING PORTION OF THE CHAIN LINK FENCE.
4. AN ADDITIONAL GATE SHALL BE PROVIDED OVER THE BEND IN THE EXISTING WATERLINE TO PROVIDE ACCESS FOR THE WWA.
5. FENCE INSTALLER SHALL HAVE THE EXISTING WATERLINE MARKED AND FIELD VERIFIED PRIOR TO ANY FENCE INSTALLATION ON-SITE.
6. G.C. TO ENSURE SUB-CONTRACTOR USES THE MAXIMUM SPACING POSSIBLE TO PROVIDE MINIMAL FENCE POSTS WITHIN THE EXISTING WATERLINE EASEMENT.

COUNTY OF ROANOKE, VIRGINIA

HANNABASS & ROWE GARAGE

DETAILS II

COUNTY OF ROANOKE, VIRGINIA

DRAWN BY: BTC
DESIGNED BY: BTC
CHECKED BY: SMH
DATE: 6-13-08
REVISIONS:
7-28-08
8-25-08
9-12-08
11-12-08
SCALE: 1"=20'
SHEET NO.
C-10
JOB NO.
R0800146.00