SAFETY REGULATIONS

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS

CONSTRUCTION NOTIFICATION

The Contractor/Owner is to notify the _____ County ____ SOIL CONSERVATION DISTRICT at least 72 hours prior to construction to facilitate any scheduling, layout, or preliminary mobilization necessary to ensure proper construction inspection to enable appropriate certification of the project.

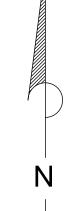
It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

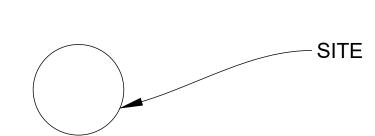
THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING. THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER.

CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

GENERAL NOTES:

- PLEASE CONTACT THE SOIL CONSERVATION DISTRICT AT PHONE #
- AT LEAST 3 DAYS PRIOR TO CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING
- A CONSERVATION TECHNICIAN SHALL SET CUT/GRADE STAKES AT THE CONTRACTORS
 REQUEST
- A CONSERVATION TECHNICIAN MUST BE PRESENT AT THE TIME OF PIPE INSTALLATION, IF REQUIRED





CRITICAL INSPECTION ITEMS (Roof Runoff)

10/20/15

- 1. The landowner will arrange for a pre-construction meeting between the contractor, NRCS and landowner to review the plans, standards and specifications prior to the start of construction.
- There will be no changes in specifications, dimensions, or materials unless approved by the engineer responsible for this drawing.

 The drawings are prepared approximately by the Netural Resources Consequetion Service for pared.
- 3. The drawings are prepared cooperatively by the Natural Resources Conservation Service for named owner/operator. Construction found not in accordance with these drawings and specifications shall violate the cooperative agreement and all drawings, specifications, and Quantities Estimate shall immediately be returned to the local NRCS office.
- 4. The following is a list of items that must be inspected by the Technician-in-Charge. If cost share is involved, payment may be forfeited if the Technician-in-Charge does not inspect all of the below:

Preconstruction Meeting	Date:	Initials:
Verify layouts:	Date:	Initials:
Verify all subgrades:	Date:	Initials:
Verify Rafter and Fascia Board Requirements:		
Inspect Rafter Ends and Fascia:	Date:	Initials:
Repair Rafter Ends if needed:	Date:	Initials:
Repair/Install Fascia:	Date:	Initials:
Paint or Wrap Fascia:	Date:	Initials:
Verify Gutter and Downspout Requirements:	Date:	Initials:
Gutter Size, Type and Slope:	Date:	Initials:
Gutter Hanger Installation	Date:	Initials:
Gutter Drop Outlet Sizes	Date:	Initials:
Leader Pipe and Outlet Installation	Date:	Initials:
Rodent Guard Installed at Outlet:	Date:	Initials:
Outlet Protection	Date:	Initials:
Verify Placement of Dry Well Collection (When Applica	able):	
Material and Size:	Date:	Initials:
Geotextile Type and Installation	Date:	Initials:
Stone Size:	Date:	Initials:
Collection Sump for Debris (When Applicable):	Date:	Initials:
Pipe Size, type, connections and slope:	Date:	Initials:
Backfill of stone to required Dimensions:	Date:	Initials:
Placement of topsoil:	Date:	Initials:
All disturbed areas seeded and mulched:	Date:	Initials:
Other items shown on the plans:	Date:	Initials:

REVISED 7/1/2021

LANDOWNER - SITE NAME

558 ROOF RUNOFF STRUCTURE



USER TO INSERT SHEET LIST TABLE

AS-BUILT STATEMENT

THE CONSERVATION PRACTICE(S) MEETS OR EXCEEDS NRCS STANDARDS AND SPECIFICATIONS				
INSPECTED BY				
	SIGNATURE	DATE		
CONSTRUCTION APPROVAL				
VEDICIED DIOTDIOT	SIGNATURE	DATE		
VERIFIED DISTRICT CONSERVATIONIST				
CONSERVATIONIST	SIGNATURE	DATE		

AS BUILT CONTRACT ITEMS:		T	
7.6 BOILT GOTTITUTO TILLING.	Reportable	Contract	
PRACTICE	Amount	Amount	

USER TO ENTER PRACTICES

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME
BY A REPRESENTATIVE OF THE COUNTY
SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE
CONTENTS, ALL CONSTRUCTION WILL BE DONE ACCORDING
TO THESE PLANS AND SPECIFICATIONS, I FURTHER
UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE
INSPECTION OF THIS OFFICE.

WNER/OPERATOR SIGNATURE	DATE	

CONTRACTOR'S SIGNATURE DATE

All disturbed areas to be stabilized within 7 days of completion, using the following recommendations.

eeding Recommendations

Tall Fescue Perennial Ryegrass or 5 lb/ac 2 lb/ac Redtop (tolerates moist sites) White Clover 5 lb/ac 20-40-40 Fertilizer 500 lb/ac Ground lime 50% oxides 3 tons /ac Straw Mulch 2 tons/ac Dates listed are for plant hardiness Zone 6B, dates will need to be changed for other zones. Seeding Dates March 1 thru May 15

It is the landowner responsibility to obtain All County, State, and Federal permits that may be needed, and to maintain this structure and those regulations.

August 1 thru October 1

USER TO ENTER SEEDING INFO



Know what's **below. Call** before you dig.

"The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities"

MATERIALS LIST

* For bidding purposes only

rict

NAME

onservation Distri

COUNTY Soil Con

United States Department of Agriculture

Agricu al Resource

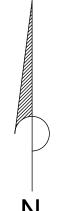
Natural Re Conservat

File Name

#ID_0049_RoofRunoff.dwg

Drawing No. MD_0049

Sheet 1 of 4



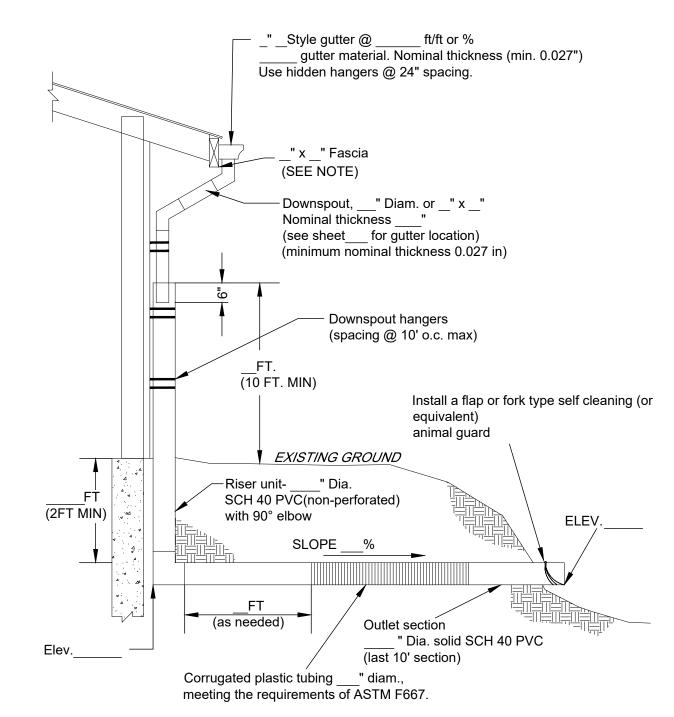
USER TO INSERT TOPO SURVEY/PLAN MAP

BENCH MARK DESCRIPTIONS

TBM #1 (IP): Elev = ???.?? Top of 1" X 2" wooden hub, marked by witness lath.

TBM #2: Elev = ???.?? Top of 1" X 2" wooden hub, marked by witness lath, near NW corner of building.

TBM #3: Elev = ???.?? Top of bolt in NW corner of concrete.



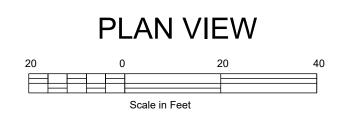
1) Fascia board material to be spruce, pine, fir or better. Cover with aluminum/vinyl flashing or paint prior to installation of roof gutter. 2) No pressure treated lumber allowed

> **GUTTER OUTLET DETAIL** Not to scale

ROOF GUTTER CONSTRUCTION SPECIFICATIONS

- 1. All materials and construction shall be in accordance with applicable NRCS standards and construction specifications.
- 2. All components of the completed system shall conform to the lines, grades, elevations, dimensions and materials shown on the plans.
- 3. Any changes in the plans or specifications must be approved by the original plan approver prior to being made. Changes are to be reviewed by the landowner for concurrence.
- 4. All disturbed areas shall be fertilized, seeded, and mulched or otherwise stabilized as required on the construction plans.
- 5. Existing fascia boards that are damaged, rotten, otherwise unstable or with a nominal thickness less than 2 inches, shall be replaced.
- 6. Rafter ends that are damaged or rotted shall be repaired.
- 7. All lumber used for fascia boards or for rafter end repair shall have a nominal thickness of 2 inches. Cover all fascia boards with aluminum or vinyl flashing or paint before the roof gutter is installed.
- 8. Down spout outlet connections shall be the manufacturer's preformed (insert) outlets for the given size shown on the design, unless otherwise approved.
- 9. Aluminum gutters and downspouts shall have a minimum thickness of 0.027 inch.
- 10. Galvanized steel gutters and downspouts shall have a minimum thickness of 28
- 11. Where animals or equipment may come in contact with downspouts, steel pipe, schedule 40 PVC or similar material will be used for the downspout.
- 12. Roof gutter supports shall have a maximum spacing of 24 inches unless otherwise approved. Roof gutters shall be mounted to the fascia board using hidden hangers, bolts and ferrules, gutter screws and ferrules, or cradles. Other methods must be approved by the engineer. Spike and ferrules are not approved.
- 13. Itemized invoices from suppliers shall be provided to verify gutter and downspout size, length, material, material gage, and hanger type.
- 14. The Soil Conservation District makes no representation as to the existence or nonexistence of any utilities at the construction site. Shown on these construction drawings are those utilities, which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists

or damage will occur to utilities. Miss Utility should be contacted at 1 800-257-7777.



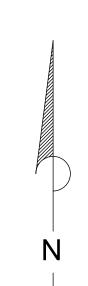
Drawn NAME District SITE ation **IDOWNER** 4 Ö

USDA United States
Department of Agriculture
Natural Resources
Conservation Service

File Name MD_0049_RoofRunoff.dwg

Drawing No. MD_0049

Sheet 2 of 4



ROOF GUTTER SIZE AND DESIGNED PITCH:

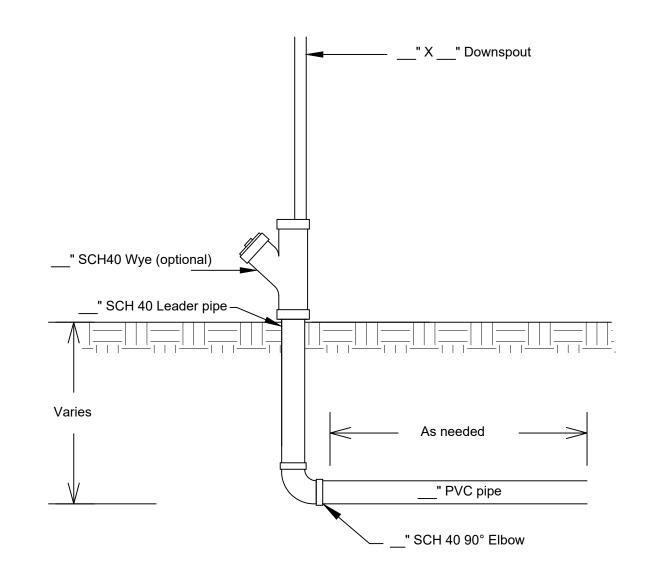
ROOF #A : (Enter gutter size and type) : X"(MIN.) IN 100' ROOF #B : (Enter gutter size and type) : X"(MIN.) IN 100' ROOF #C : (Enter gutter size and type) : X"(MIN.) IN 100' ROOF #D : (Enter gutter size and type) : X"(MIN.) IN 100'

DOWNSPOUT SIZE:

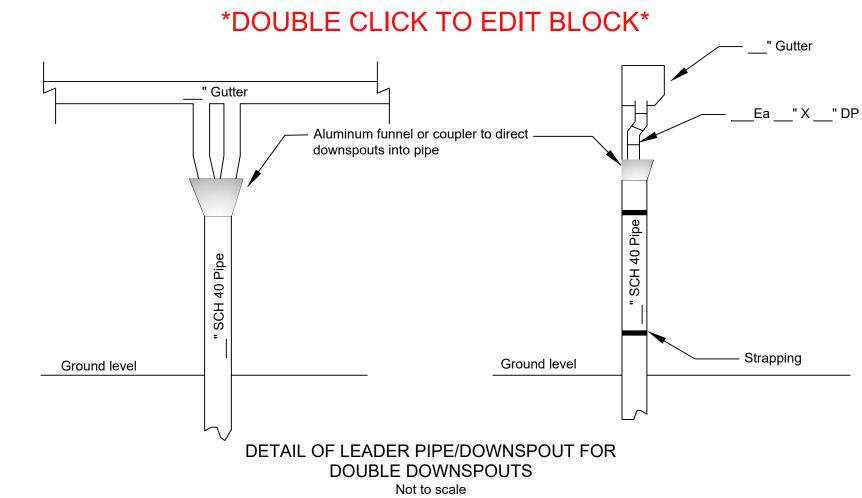
ROOF #A : XEa of X" x X" Downspout ROOF #B : XEa of X" x X" Downspout ROOF #C : XEa of X" x X" Downspout

ROOF #D : XEa of X" x X" Downspout

USER MAY INSERT DESIGN PDF FILE OF GUTTERS AND DOWNSPOUTS OR USE ABOVE TEXT TO ENTER IN THE REQUIRED INFORMATION

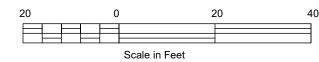


DETAIL OF LEADER PIPE/DOWNSPOUT INTO UNDERGROUND DRAIN Not to scale



DOUBLE CLICK TO EDIT BLOCK

PLAN VIEW OF GUTTERS AND DOWNSPOUTS



NAME

District

SITE

IDOWNER

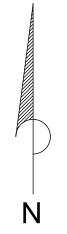
COUNTY

United States
Department of
Agriculture
Resources
vation Service

File Name MD_0049_RoofRunoff.dwg

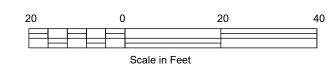
Drawing No. MD_0049

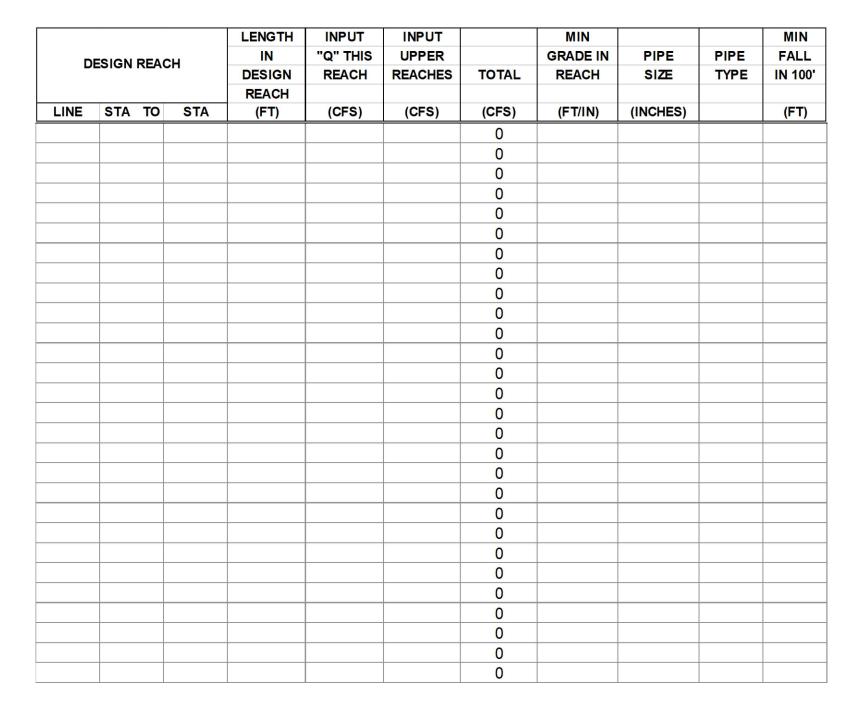
Sheet 3 of 4

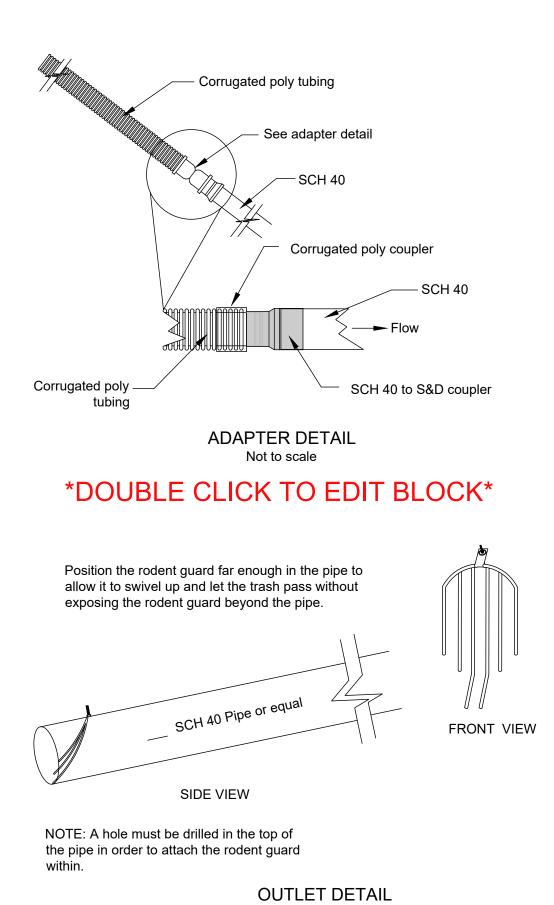


USER TO INSERT MAP OF UNDERGROUND PIPE

PLAN VIEW OF UNDERGROUND PIPE







DOUBLE CLICK TO EDIT BLOCK

Not to scale

NAME SITE **IDOWNER** 4

Drawn

District

Conservation

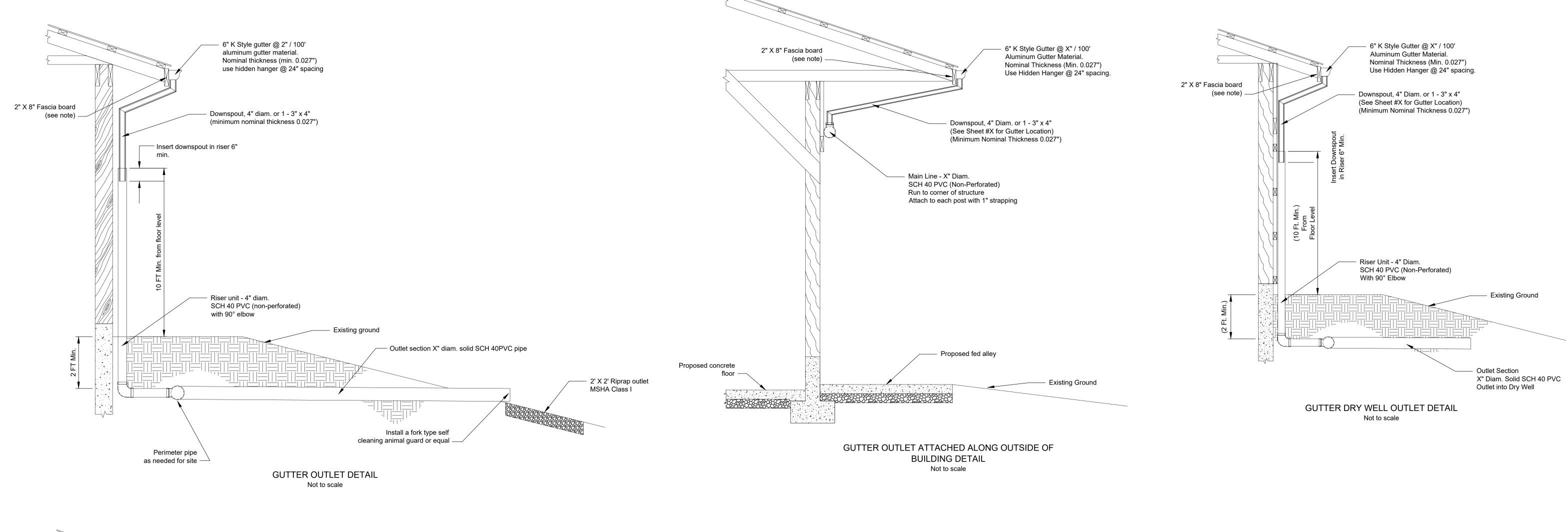
COUNTY

USDA United States
Department of Agriculture
Natural Resources
Conservation Service

File Name MD_0049_RoofRunoff.dwg

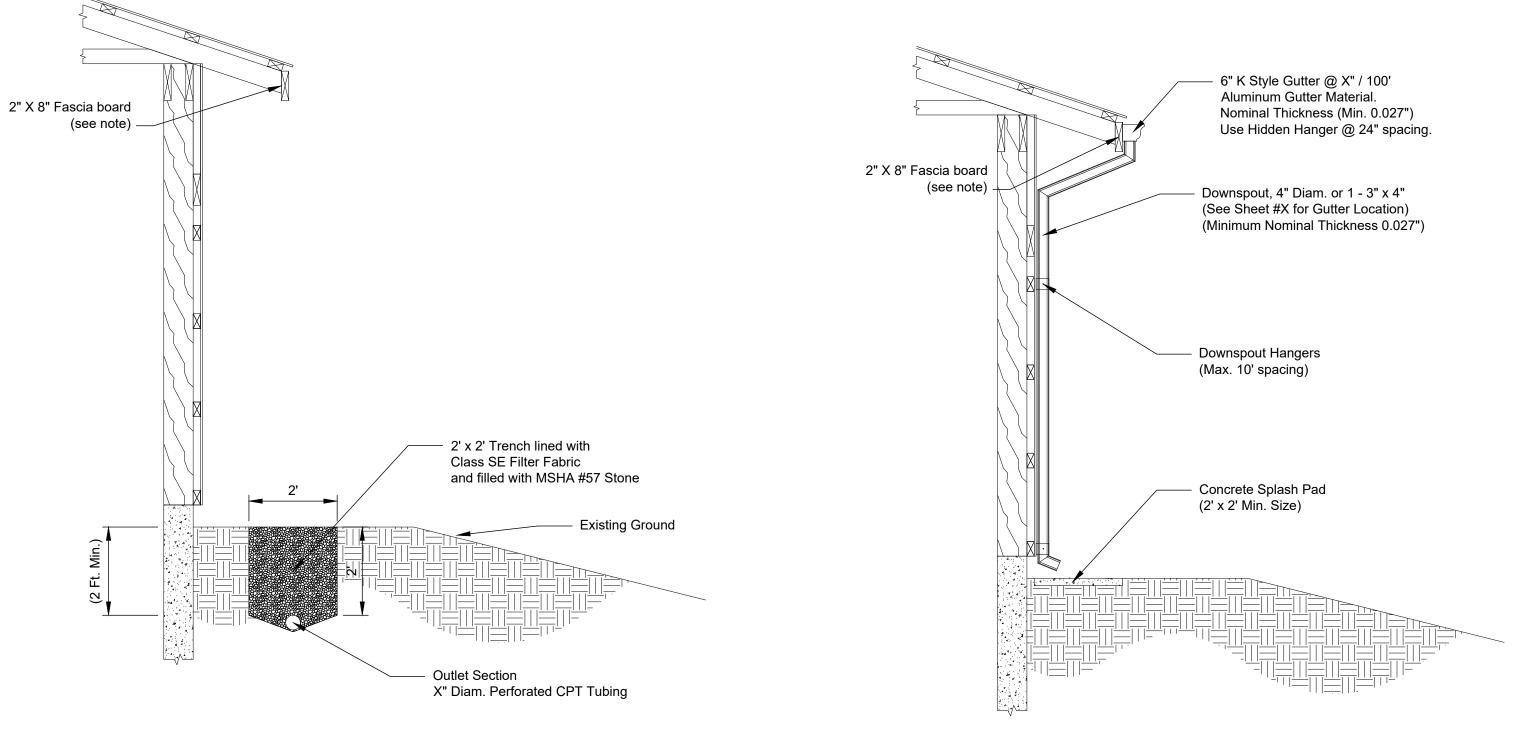
Drawing No. MD_0049

Sheet 4 of 4



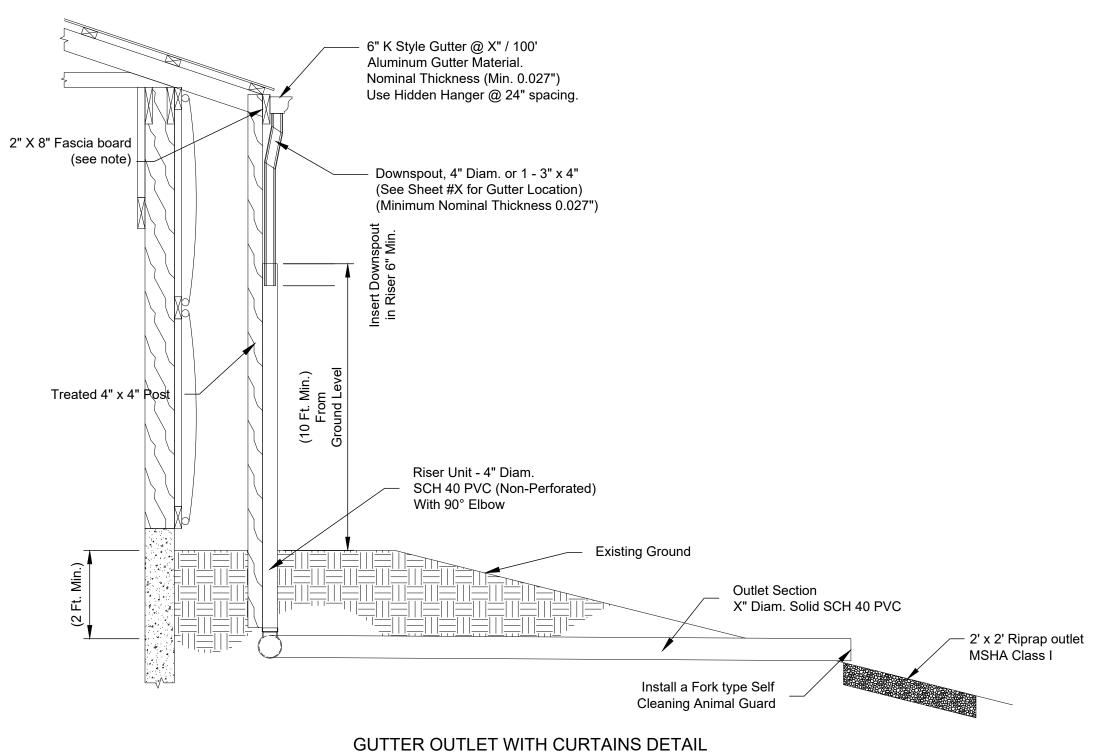
GUTTER SPLASH PAD OUTLET DETAIL

Not to scale

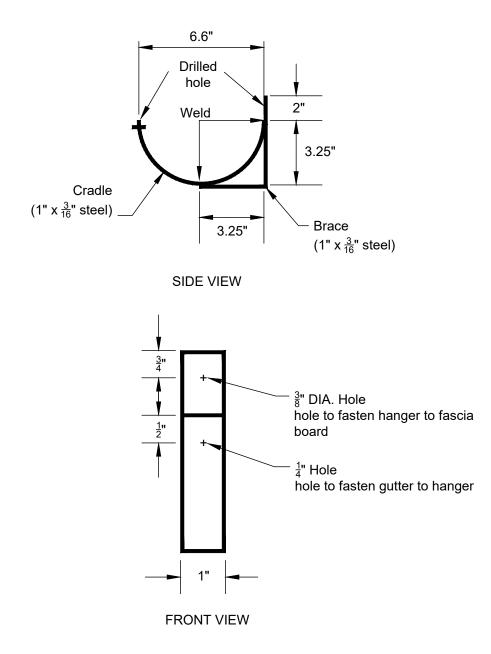


GUTTER DRIP TRENCH DETAIL

Not to scale



Not to scale

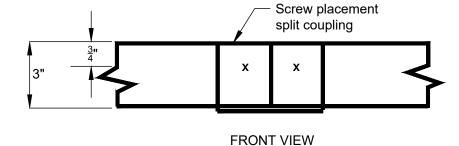


- 1. Gutter hangers shall be made of 1" x 3/16" steel.
- 2. Hanger spacing shall no greater than 32".
- 3. Hangers shall be backed with fascia boards with a minimum nominal thickness of 2 inches.
- 4. Hangers shall be fastened to the fascia board by: A. Minimum 1/4" dia. bolts (galvanized)
- 5. Fascia boards must be securely fastened to rafters and shall be replaced or repaired as necessary.

Not to scale

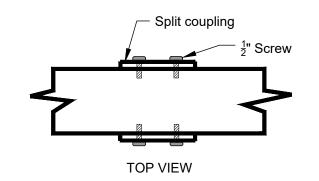
6. Hangers shall have a minimum one coat of paint.

6 INCH PVC HANGER DETAIL



NOTES:

- Glue all joints
- Use same screw placement on back side of gutter

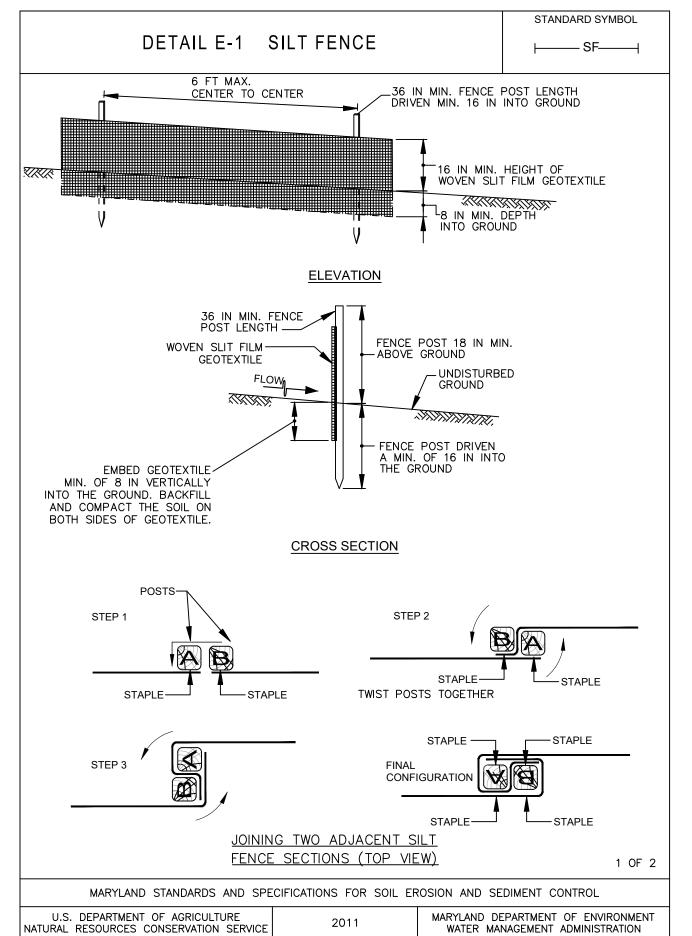


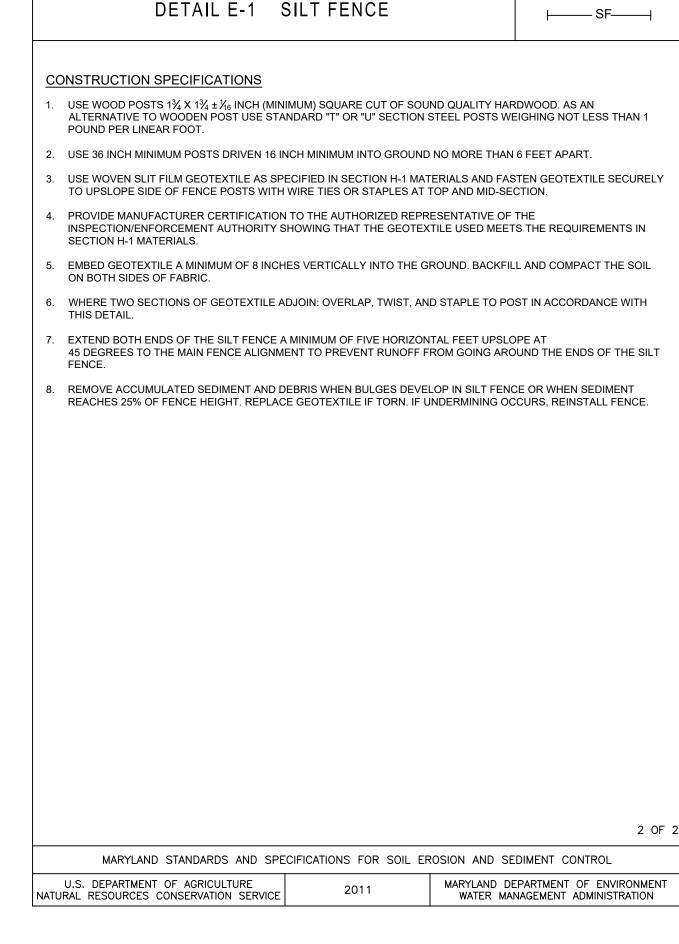
PVC ROOF GUTTER DETAILS

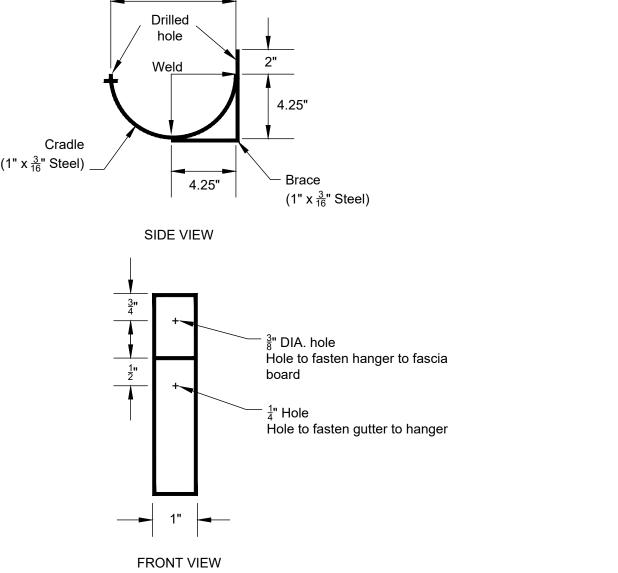
- 1. Gutter shall be split 6" schedule 40 PVC pipe.
- 2. Gutter lengths shall be connected by using split schedule 40 coupling. Each coupling shall be split schedule 40 coupling. each coupling shall be glued and screwed. Screws shall be self tapping with an approximate length of 1/2 inch. Use 4 screws per coupling.
- 3. Gutter ends shall be split schedule 40 caps or similar. Ends shall be fastened by gluing and
- screwed with 2 self tapping screws as described above. 4. Schedule 40 tees shall be used for downspout outlets. Each outlet shall be glued and have
- a minimum of 4 screws to fasten outlet to the roof gutter.
- 5. The gutter shall be attached to the hangers using 1/4" dia. bolts. one bolt shall be used at
- each hanger.

6 INCH PVC GUTTER DETAILS Not to scale

STANDARD SYMBOL

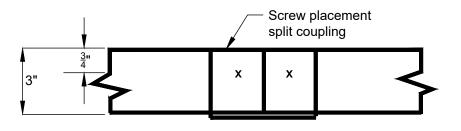






- 1. Gutter hangers shall be made of 1" x 3/16" steel. 2. Hanger spacing shall no greater than 32".
- 3. Hangers shall be backed with fascia boards with a minimum nominal thickness of 2 inches.
- 4. Hangers shall be fastened to the fascia board by:
- A. Minimum 1/4" dia. bolts (galvanized)
- 5. Fascia boards must be securely fastened to rafters and shall be replaced or repaired as
- 6. Hangers shall have a minimum one coat of paint.

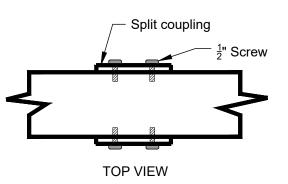
8 INCH PVC HANGER DETAIL Not to scale



FRONT VIEW

NOTES: - Glue all joints

- Use same screw placement on back side of gutter



PVC ROOF GUTTER DETAILS

1. Gutter shall be split 8" schedule 40 PVC pipe.

- 2. Gutter lengths shall be connected by using split schedule 40 coupling. Each coupling shall be split schedule 40 coupling. Each coupling shall be glued and screwed. screws shall be self
- tapping with an approximate length of 1/2 inch. Use 4 screws per coupling.
- 3. Gutter ends shall be split schedule 40 caps or similar. Ends shall be fastened by gluing and
- screwed with 2 self tapping screws as described above. 4. Schedule 40 tees shall be used for downspout outlets. Each outlet shall be glued and have a
- minimum of 4 screws to fasten outlet to the roof gutter.
- 5. The gutter shall be attached to the hangers using 1/4" dia. bolts. One bolt shall be used at each hanger.

8 INCH PVC GUTTER DETAIL Not to scale

