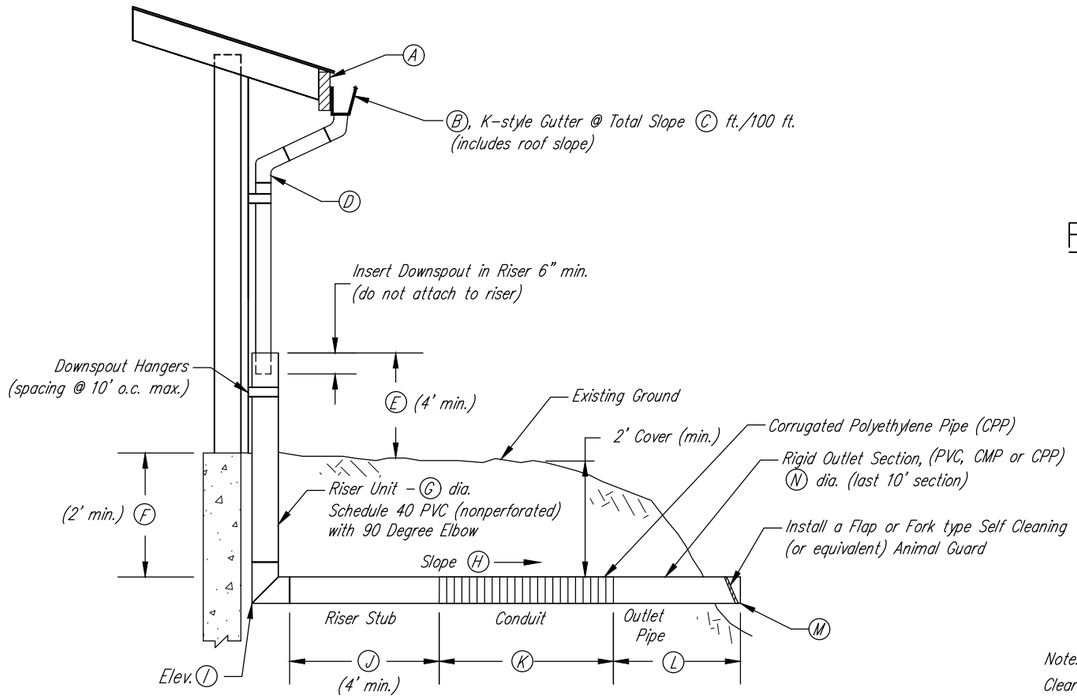
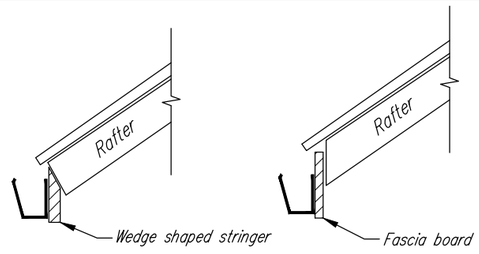
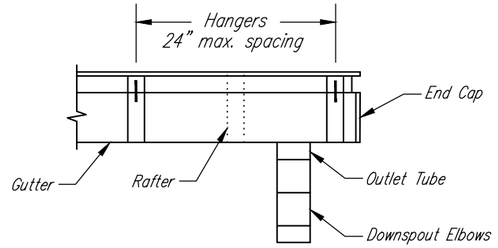


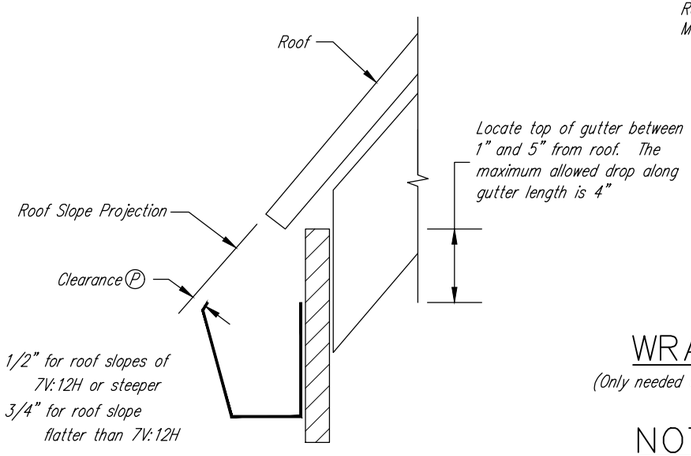
GUTTER AND DOWNSPOUT DETAIL



FASCIA AND STRINGER DETAIL

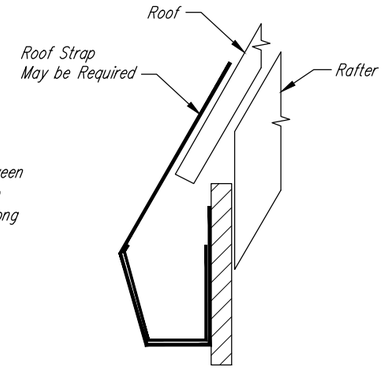


FRONT VIEW



Note:
Clearance = 1/2" for roof slopes of 7V:12H or steeper
Clearance = 3/4" for roof slope flatter than 7V:12H

CLEARANCE DETAIL



WRAP-AROUND STRAP

(Only needed when clearance of roof slope projection can not be met)

Roof Gutter and Downspout Schedule

Roof Number	Fascia Board A X" x X"	Gutter Size B (in)	Gutter Length (ft)	Total Slope ft./100 ft. C	Wrap-around Strap Spacing (ft)	Downspout (Number)	Downspout Size D X"x X" or Diameter (in)	Riser Length Above Ground E (ft)	Riser Length Below Ground F (ft)	Riser Unit Dia. G (in)	Outlet Pipe Slope H (%)	Outlet Pipe Elbow Elev. I (ft)	Riser Stub Length J (ft)	Conduit Length K (ft)	Outlet Pipe Length L (ft)	Outlet Invert Elev. M (ft)	Outlet Section Dia. N (in)	Clearance P (in)
#1																		
#2																		
#3																		
#4																		
#5																		

NOTES

1. Gutter must be corrosion resistant material of sufficient thickness to prevent flexing between supports. Aluminum gutters must have a nominal thickness of 0.032 inches. Aluminum downspouts will have a nominal thickness of 0.020 inches. Galvanized steel gutters will have a minimum thickness of 28 gauge. All gutters must have end caps.
2. Dissimilar metals must not be in contact with each other.
3. Gutters must have continuous backing support with a vertical face. A wedge shaped stringer may be used for support. Rafter ends and fascia boards must be sound. Fascia board material to be spruce, pine, fir or better. Cover non-pressure treated boards with aluminum flashing or exterior paint prior to installation of roof gutter.
4. Locate gutter hangers a maximum of 24 inches apart and attach to fascia board or roof sheathing at rafter locations.
5. Securely fasten downspouts at the top and bottom with support brackets and place intermediate supports brackets at a maximum spacing of 10 feet where not housed within a protective sleeve.
6. Make all gutter joints watertight with mastic or caulking.
7. Use expansion joints on straight runs of 40 feet or more and where the gutter system is not free floating. If gutters are seamless follow the manufacturer's recommendations.
8. Place gutters below the roof slope line projection with a minimum clearance as shown in the drawings.
9. Place a protective sleeve of PVC Sch. 40 or steel pipe around the downspout if exposed to machinery traffic or livestock. Sleeve will be a minimum height of 6 feet above grade.

I certify the gutter and downspout type, size, gauge, roof gutter slope and mounting method are as shown on the plans and specifications.

Contractor Signature _____ Date _____

License Number _____ Exp. Date _____

NRCS is accepting the construction of this gutter and downspout system on the basis that they have been certified by a licensed builder as being installed as shown on the plans and specifications. Any deficiencies in the construction is the responsibility of the licensed builder whose signature appears on the construction drawings.

NRCS Representative _____ Date _____

Reset Form

Not to Scale

MICHIGAN ENGINEERING STANDARD DRAWING	
FILE NAME MI-012-B 3-18	
STANDARD DWG. NO. MI-012-B	
DATE 3-18	SHEET 1 OF 1

Date
Designed
Drawn
Checked
Approved

K-Style Gutter and Downspout Detail Underground Outlet

Co., Michigan
Township, T- R- Sec.

United States Department of Agriculture
Natural Resources Conservation Service

File Name

Drawing Name

Sheet of