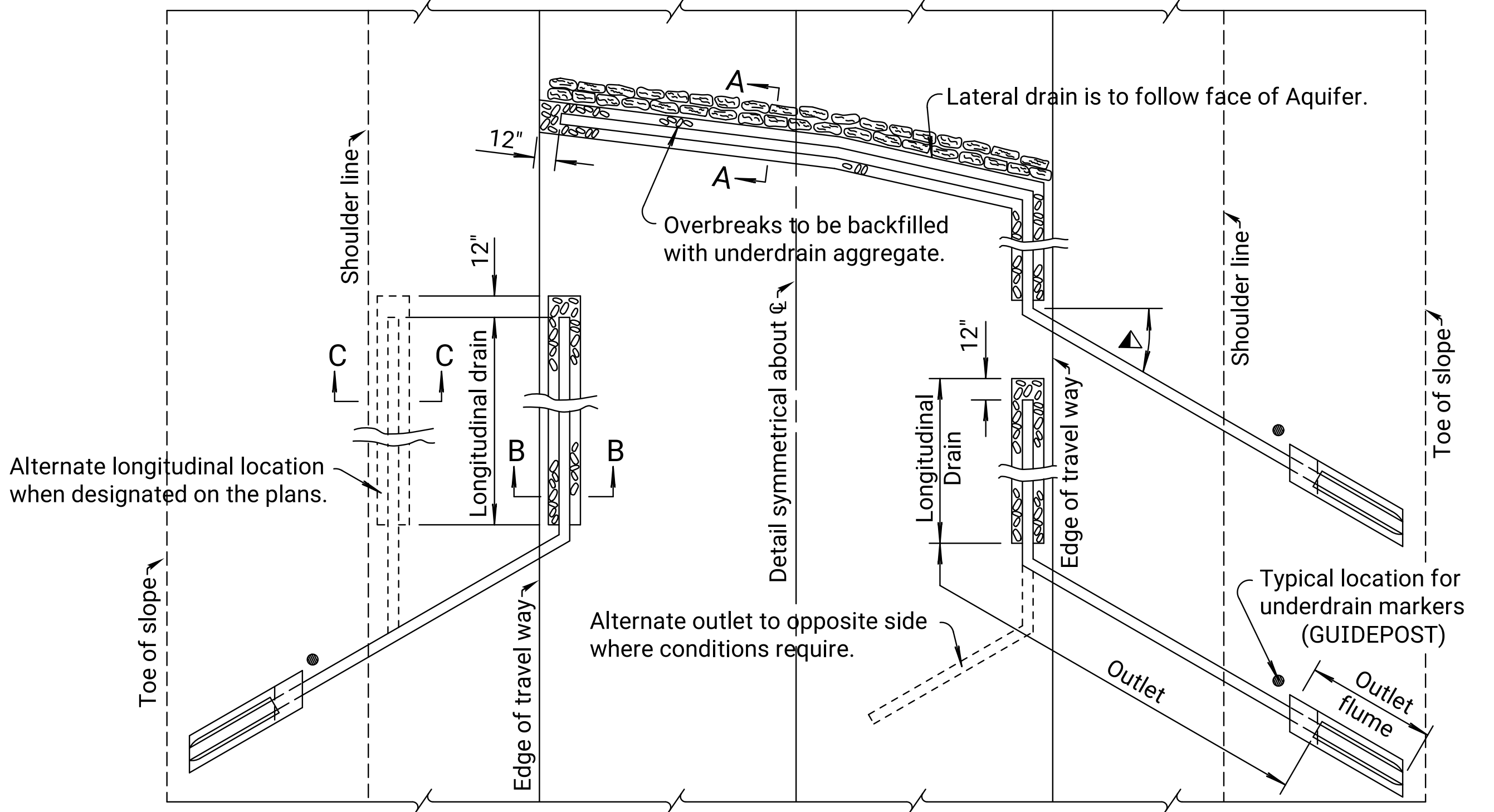


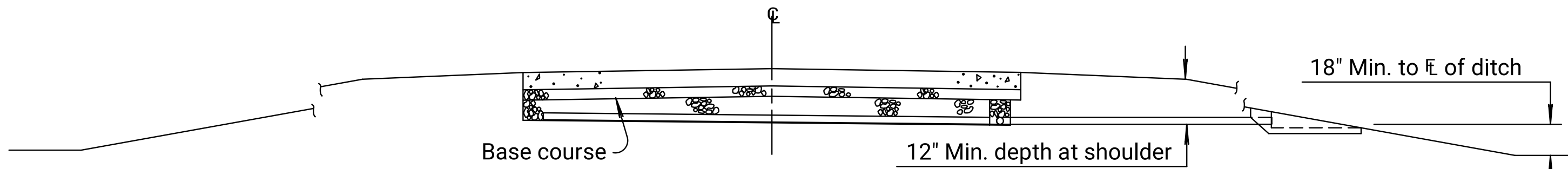
Note to Designer: For required pipe stiffness see KDOT Geology Report.

Plotted by : KDOT#CADD.Support_ks.gov 24-JUL-2026 00:01
File : rd650.dgn

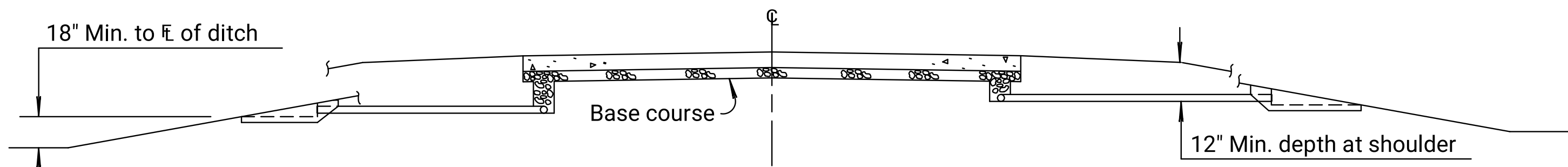


PLAN PIPE UNDERDRAINS

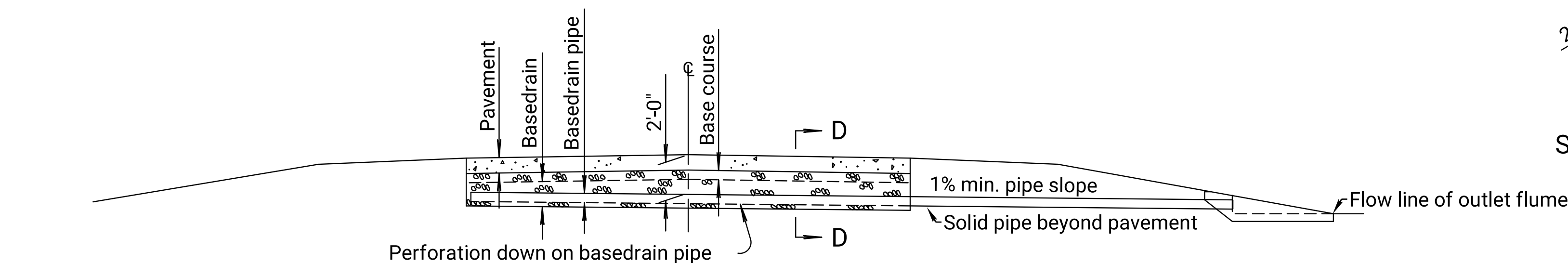
▲ 30° unless otherwise specified.



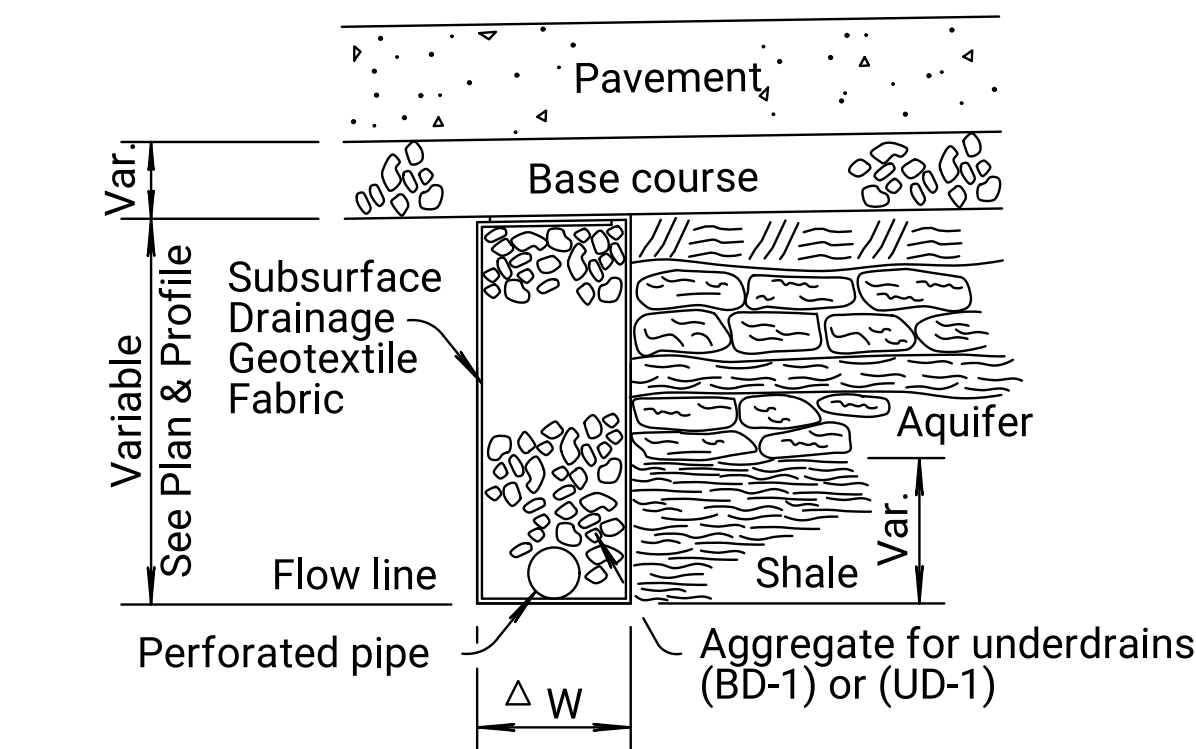
SECTION LATERAL UNDERDRAIN



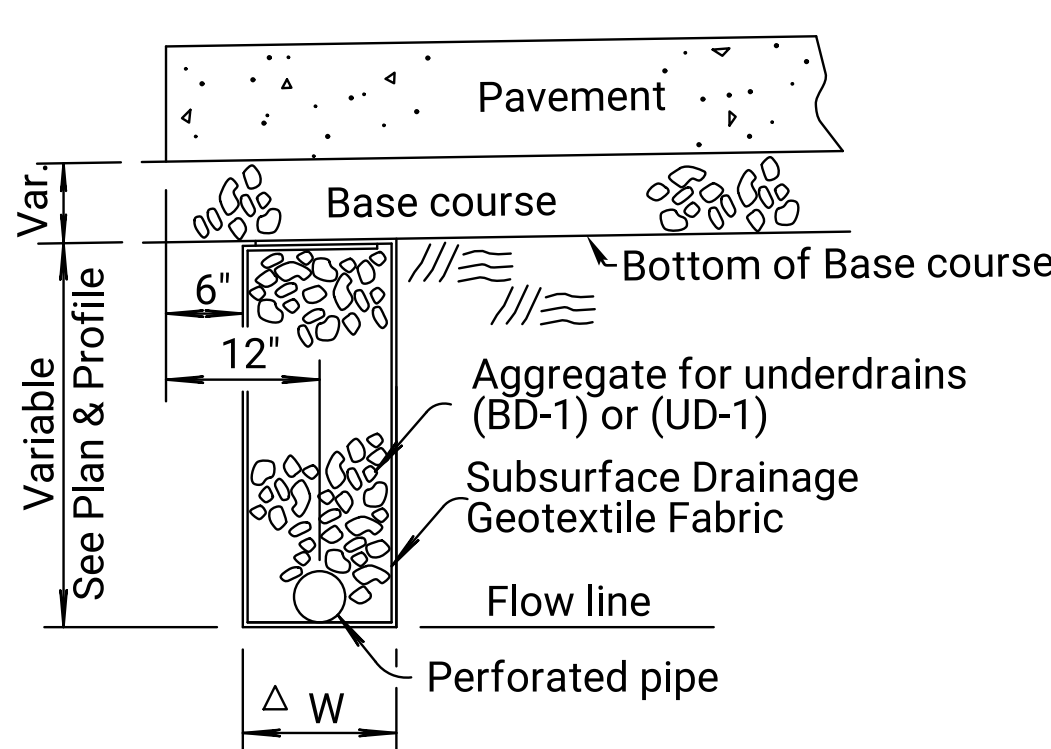
SECTION PIPE UNDERDRAINS



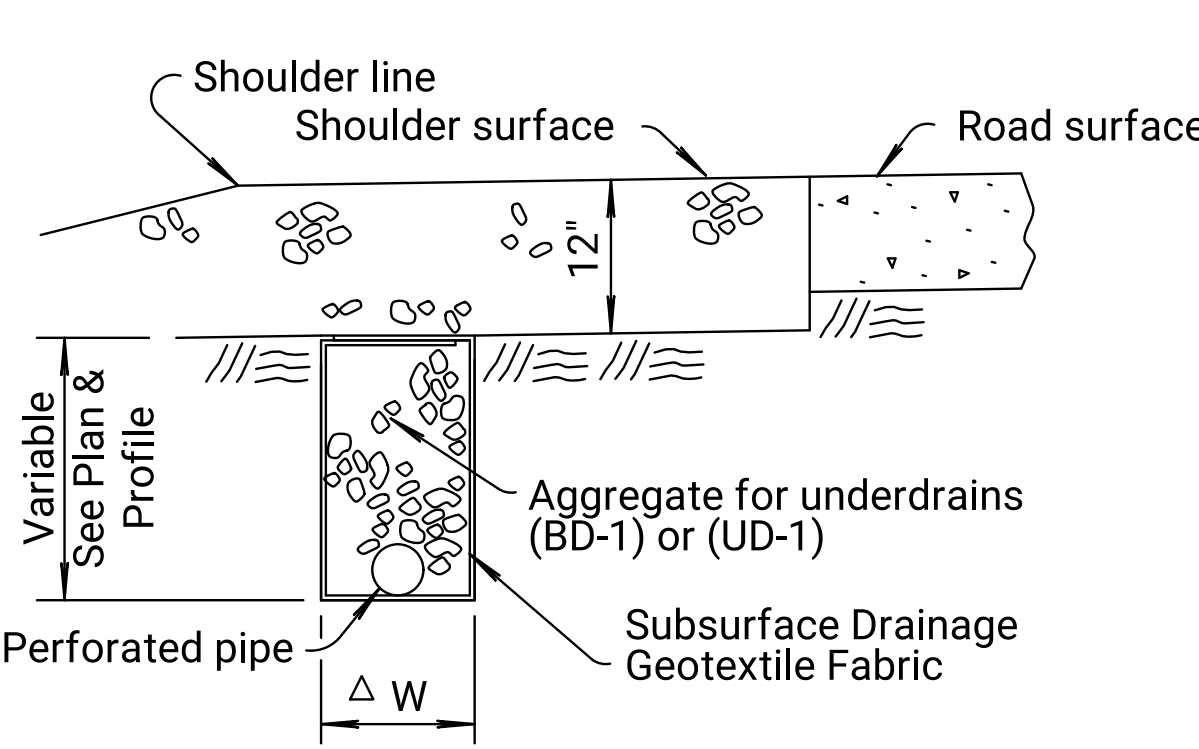
SECTION PIPE BASEDRAINS



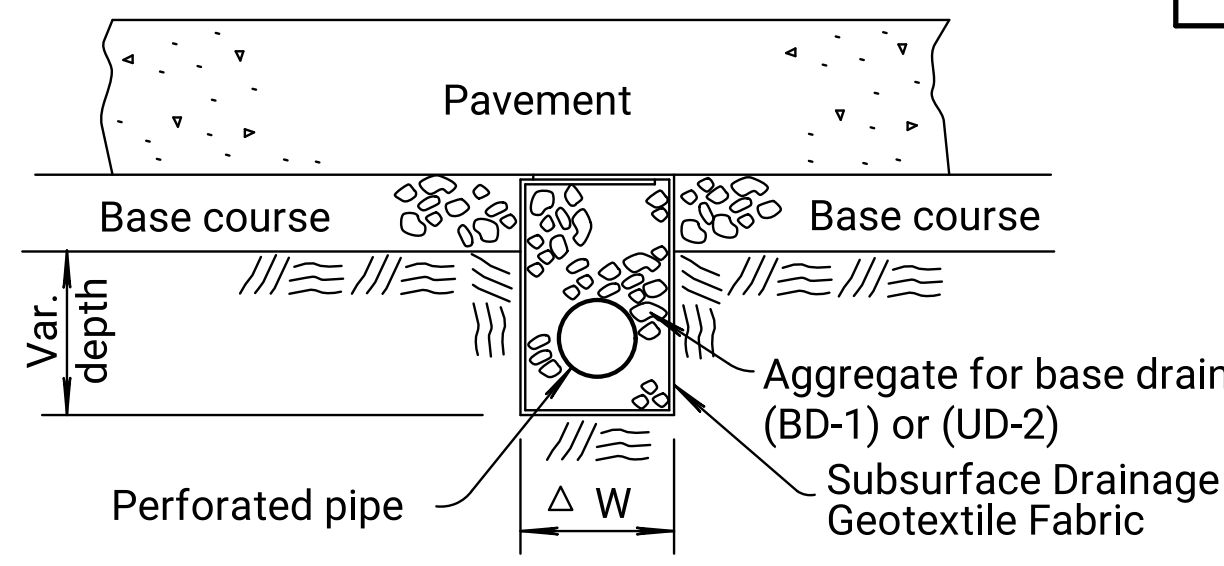
SECTION A-A



SECTION B-B

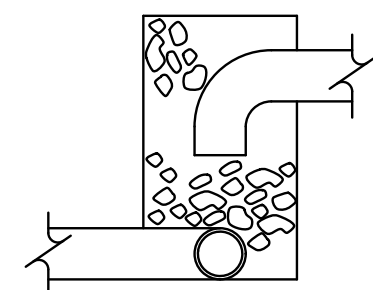


SECTION C-C

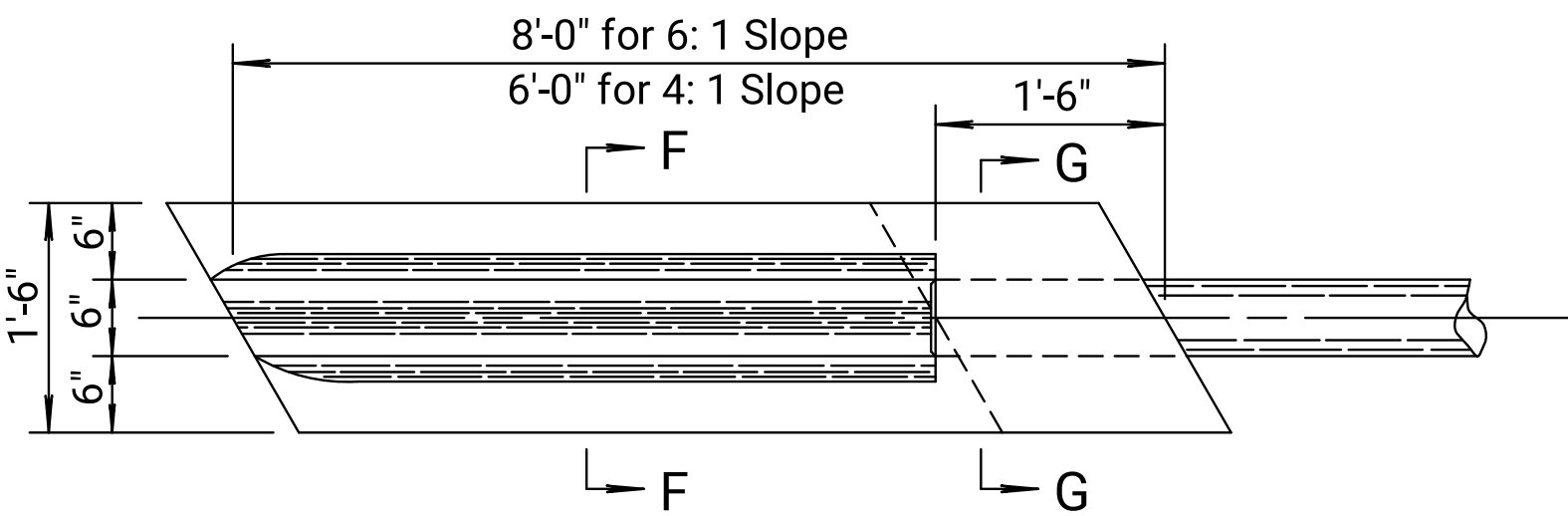


SECTION D-D (BASEDRAIN)

Δ "W" should be 8" plus exterior diameter of the pipe used.



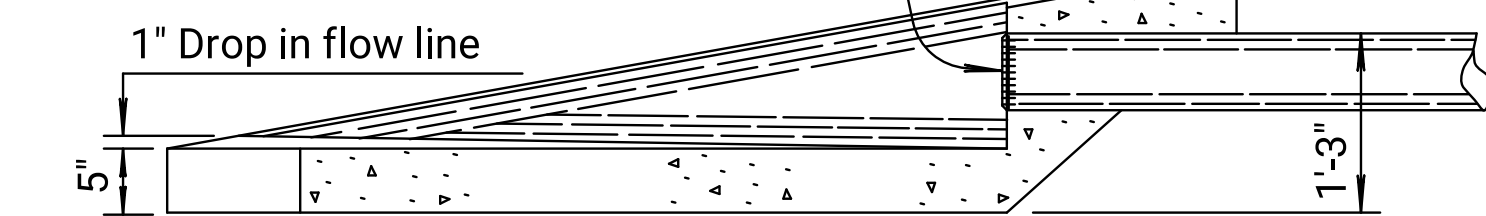
Note: Unless shown otherwise on the plans, 90° elbows shall be used on the longitudinal at all locations where there is a difference in elevation between the longitudinal drain at a lateral trench.



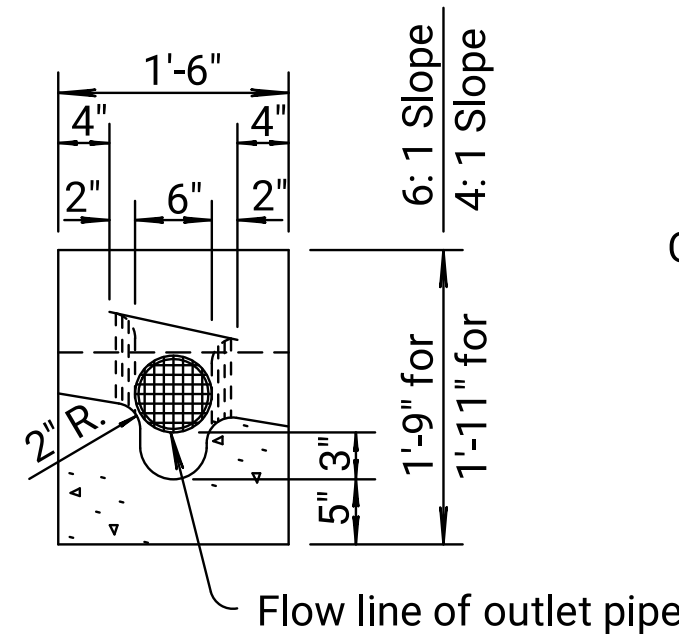
PLAN

Note: Drawing is dimensional for 6" outlet pipe. Adjust dimensions as required for other pipe sizes.

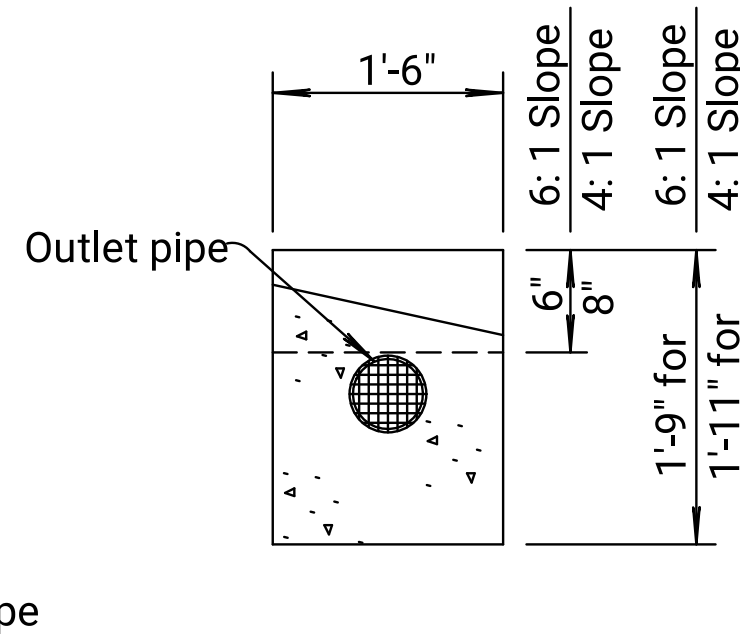
The lower end of each outlet shall be fitted with a screen to prevent the entrance of rodents. Use " mesh galvanized hardware cloth. Bend ends of wires to fit snugly into outlet opening. Subsidiary to other items in the contract.



LONGITUDINAL SECTION
CONCRETE OUTLET FLUME



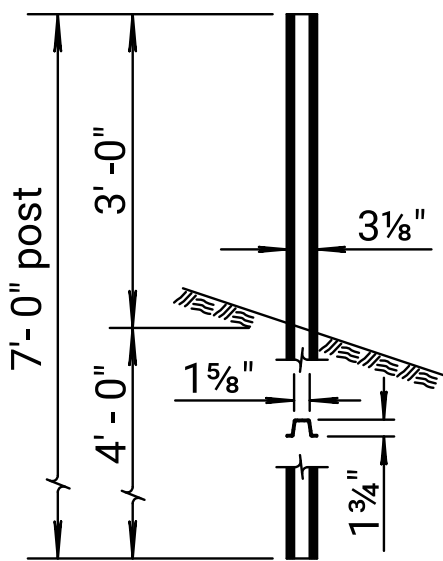
SECTION F-F



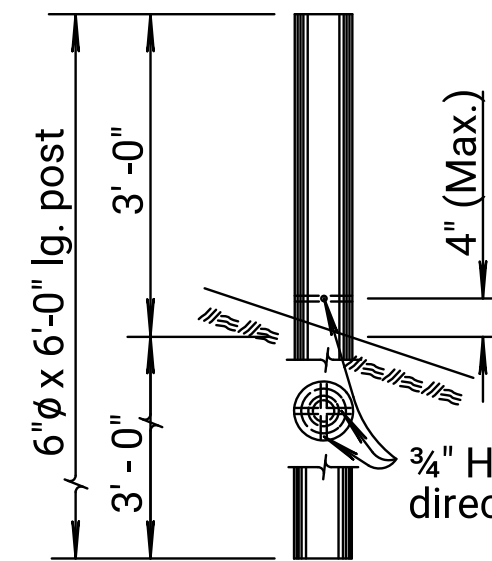
SECTION G-G

GENERAL NOTE GUIDEPOST

All wood posts shall be given a preservative treatment as provided for in the KDOT Standard Specifications. All cuts and injuries in treated posts shall be thoroughly saturated with preservative. ReflectORIZED material shall be applied to the post by the state. Where wood guidepost is used as underdrain markers, the top 18" of the post shall be given 2 coats of aluminum paint and the top 12" of the post shall be given one coat of International Orange enamel paint. Only one type of preservative treatment may be used on a project. Metal post shall have a galvanized or baked enamel coating, and the upper 12" of each post shall receive a coat of International Orange enamel paint.



Metal Guidepost Option
(7'-0" at 3.00 lbs./ft.)
Flanged channel



Wood Guidepost Option
(6" ø x 6'-0")

GUIDEPOST

05	7-8-26	Added Subsurface Drng, Geotextile Fab. to Underdrains	A.L.R.	L.W.M.
04	11-13-17	Added pipe types, revised notes	A.L.R.	S.W.K.
03	03-27-08	Added Basedrains, revised notes	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APPD

KANSAS DEPARTMENT OF TRANSPORTATION				
UNDERDRAINS, BASEDRAINS AND GUIDEPOSTS				
RD650				
FHWA APPROVAL		07-22-26	APPD.	Luke W. Metheny
DESIGNED	DETAILED	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	