

UNCLASSIFIED LETDOWN<sup>④</sup>  
STRUCTURE SINGLE ELBOW

$\bar{C}$  is  $\bar{C}$  of roadway, dike, survey, or other as detailed on the plans.



Skew angle is the angle which one end of the pipe is ahead (by stationing) of a line perpendicular to the  $\bar{C}$ .  
(Example: skew Rt. ahead 30 degrees)

Standard type joint couplings are required. See Materials I.M. 441.

When the concrete option is used, use connected joints (DR-121) for the outer three joints.

- ① Refer to the following:  
 DR-201 for circular concrete.  
 DR-202 for low clearance concrete.  
 DR-203 for circular metal.  
 DR-204 for arch metal (metal pipe only).  
 DR-205 for circular concrete with end wall.  
 DR-206 for low clearance concrete with end wall.
- ② Type "A" Diaphragm, see DR-501. If more than one diaphragm is specified, install them 15 feet apart or as specified.
- ③ Bend may be accomplished by use of metal elbow, Pipe Adapter (DR-122), Type "D" Section, or Concrete Elbow (DR-141) as specified. Bend is considered incidental to the Length of pipe.

Possible Tabulation:  
104-3

 <b>STANDARD ROAD PLAN</b>	REVISION	
	1	04-18-17
<b>DR-652</b>		SHEET 1 of 1
REVISIONS: Modified note 1 to include references to additional apron types.		
 APPROVED BY DESIGN METHODS ENGINEER		
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