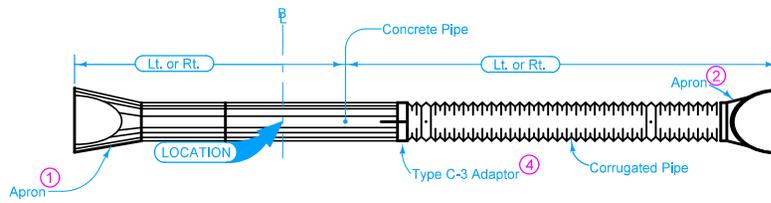


A= Concrete Pipe Length
 B+C+E= C.M.P. or P.E.P. Length

SECTION



PLAN

\bar{Q} 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{Q} .
 (Example: Skew Rt. ahead 30 degrees)

Standard type joint couplings are required. See [Materials I.M. 441](#).

- ① See [DR-201](#).
- ② See [DR-203](#).
- ③ See [DR-121](#).
- ④ See [DR-122](#).
- ⑤ Optional "D" section only when specified in the tabulation. Refer to [DR-141](#).

Possible Tabulation:
 104-3

 STANDARD ROAD PLAN	REVISION 1 10-18-16
	DR-641
	SHEET 1 of 1
<small>REVISIONS: Moved link to DR-122 from Circle Note 3 to Circle Note 4. Moved language from Circle Note 4 to new Circle Note 5 and linked Circle Note 5 to DR-141.</small>	
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
CONCRETE/CORRUGATED PIPE CULVERT LETDOWN STRUCTURE WITH METAL APRON	