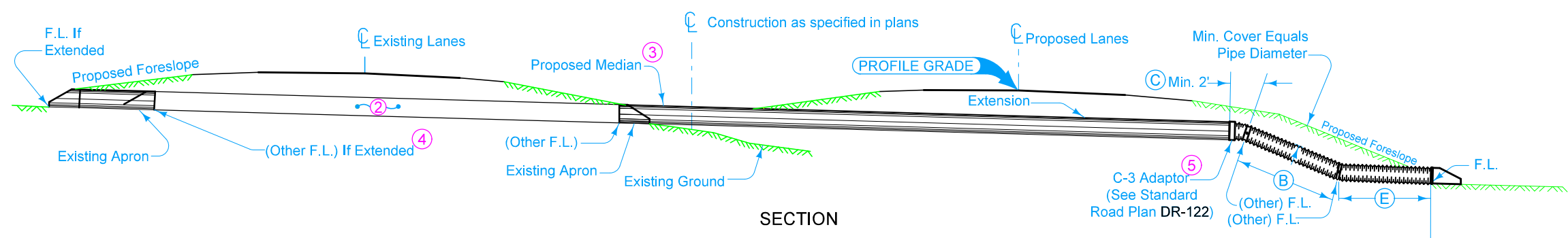
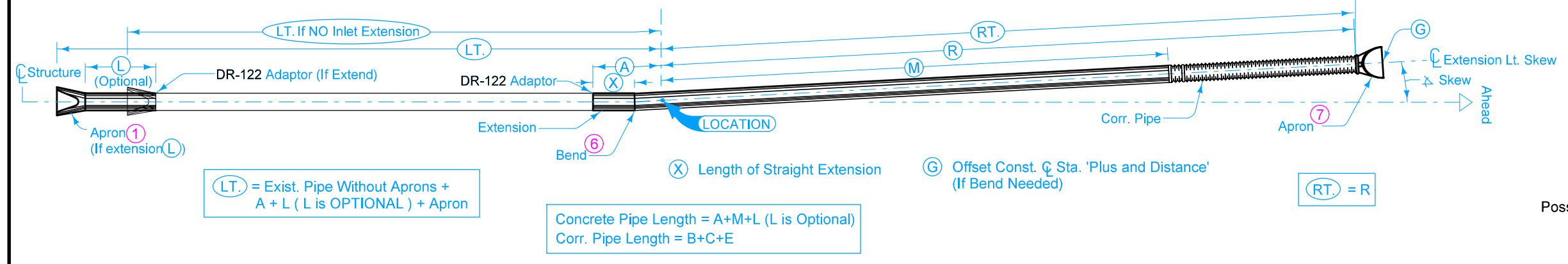


If bend is required, extend in the direction specified with skew measured from centerline of existing structure. Dimension Rt. or Lt. is measured at ϕ of pipe along laying length.

- ① Refer to the following:
 DR-201 for circular concrete.
 DR-202 for low clearance concrete.
 DR-205 for circular concrete with end wall.
 DR-206 for low clearance concrete with end wall.
- ② Existing structure.
- ③ If less than 12 inch cover over pipe in median, install median pipe and dike.
- ④ Optional Type "D" Section only when specified in the tabulation.
- ⑤ Install C-3 adaptor beyond proposed shoulder line. Flowline approximately 6 feet below shoulder elevation.
- ⑥ Bend may be accomplished by use of Type "D" Section or Concrete Elbow (DR-141) as specified.
- ⑦ Refer to the following:
 DR-203 for the circular metal.
 DR-204 for arch metal.



SECTION



PLAN

LT. = Exist. Pipe Without Aprons + A + L (L is OPTIONAL) + Apron


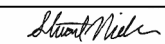
Concrete Pipe Length = A+M+L (L is Optional)
 Corr. Pipe Length = B+C+E

X Length of Straight Extension

G Offset Const. ϕ Sta. 'Plus and Distance' (If Bend Needed)

RT. = R

Possible Tabulation:
 104-3

 STANDARD ROAD PLAN	REVISION	
	1	04-18-17
	DR-629	
SHEET 1 of 1		
REVISIONS: Modified notes 1 and 7 to include references to additional apron types.		
 APPROVED BY DESIGN METHODS ENGINEER		
PIPE EXTENSION LETDOWN STRUCTURE HORIZONTAL BEND (OPTIONAL) - ADDING LANES		