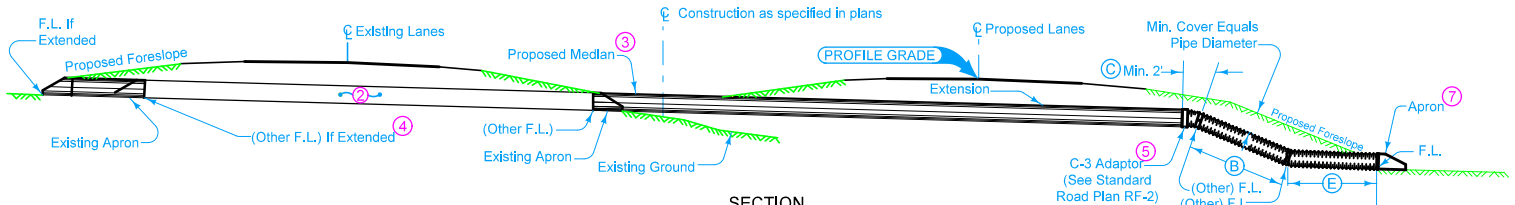
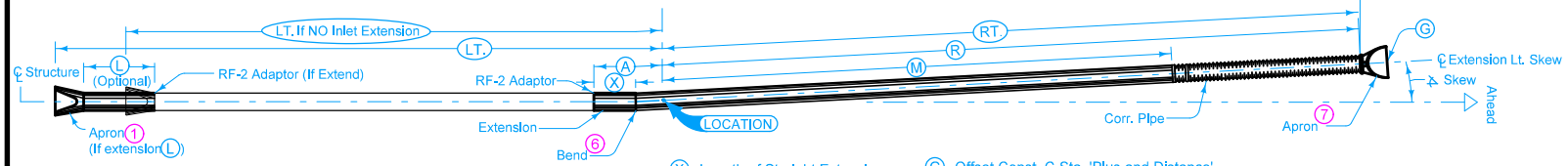
If bend is required, extend in the direction specified with skew measured from centerline of existing structure. Dimension Rt. or Lt. is measured at ℄ of pipe along laying length.

1. See DR-201.
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 adapter 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. See DR-203.



SECTION



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

(X) Length of Straight Extension

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

(RT.) = R

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

PLAN

Possible Tabulation:
104-3

IOWA DOT

STANDARD ROAD PLAN

REVISION	
New	04-21-15

DR-629

SHEET 1 of 1

REVISIONS: New. Replaces Detail 1309.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

PIPE EXTENSION LETDOWN STRUCTURE HORIZONTAL BEND (OPTIONAL) - ADDING LANES