Pipe (Outlet Section Shown)

Spigot On Inlet Section

24" For 30" To 72" Pipe

For Straight Flare Cylindrical

GENERAL NOTES

1. Flared and spigoted shall conform to the requirements of ASTM C67 with the exception that dimensions and reinforcement shall be as prescribed in the table above. Close tolerance reinforcement may consist of either one or two laps of steel. Compressive strength of concrete shall be 4000 psi. Shop drawings for flared and spigoted facing dimensions other than above must be submitted for approval to the State Drainage Engineer.

2. Connections between the Flared end section and the pipe culvert may be any of the following types unless otherwise stated on the plans.

a. Joints meeting the requirements of Section 941-1.5 of the Standard Specifications (O-Ring Gasket).

b. Joints sealed with preformed plastic gaskets.

c. Reinforced concrete jackets, as detailed on this drawing.

The gaskets shall meet the requirements of Section 942-2 of the Standard Specifications and the minimum joint dimensions and tolerances shall be identical or compatible to those used in the pipe culvert. For the pipe culvert. Concrete jacket shall be as specified on Index No. 280. Cost of concrete and reinforcement shall be as prescribed in the table above. Circumferential reinforcement may consist of either one cage or two cages of steel.

3. Toe walls shall be used whenever the anticipated velocity of discharge and soil type are such that erosive action would occur.

4. Toe walls shall be included in the contract unit price for the pipe culvert.

5. Reinforced concrete jackets are not intended for side drain installations.

DESIGN NOTES

1. Flared and spigoted are intended for use outside the clear zone on median drain and cross drain installations, except that flared and spigoted for pipe sizes 24", 30", and 36" are permitted within the clear zone. When the slope intersection permits, 24" and 30" flared and spigoted may be located with the culvert spacing as close as 6' outside the sides of the ditch.

2. Reinforced concrete jackets shall be used at all locations where high velocities and/or highly erosive soils may cause dislodging. These locations are to be shown on the plans.

3. The walls are used to prevent the anticipated velocity of discharge and soil type are such that erosion would occur. The walls are not required where ditch pavement is provided, except when dislodging is expected, the wall shown on the plans.

REINFORCED CONCRETE JACKET DETAIL

Pipe Concrete Pipe Shown

Flared End

SECTION CC

REINFORCED CONCRETE JACKET DETAIL

END VIEW

2005 ROAD Design Standards