**NOTE:**

1. Furnish metal pipe culvert, elbows and coupling bands according to Section 602.
2. Furnish riprap for protective apron according to Section 251 and Detail C253-51.
3. Furnish geotextile fiber type conforming to subsection 714.01(a). See summary tables for class and type.
4. Furnish hardware galvanized according to AASHTO M111.
5. Place pipe anchor assemblies at approximately 20' (min.) intervals along rundown portion of drain pipe.
6. Other suitable pipe anchor assemblies may be used upon approval in writing by the CO.
7. The use of the hugger band is restricted to welded spiral pipe or annularly corrugated pipe.
8. Metal pipe shown is typical. Steel, aluminum, and concrete pipes as indicated on the drainage summary sheet, may be used.
9. Join concrete pipe according to section 602 or other methods approved by the CO.
10. Use alternate A anchor assembly only with annular or preformed and HCSF coupling band if securely fastened on downstream band if securely fastened on downstream side of joint. Alternate B anchor assembly to be fastened to pipe sections and not to band coupler used to join sections.
11. Use gaskets on all joints along the rundown portion of drain pipe.
12. Pipe anchor assemblies will be paid for under Section 606.

Pipe anchor assembly details

See typical section sheet for structural section thicknesses

- Normal edge of shoulder
- Culvert
- Pipe anchor assembly
- Pipe anchor assembly details
- Coupling band
- Cable clamp
- 2" x 72" Pipe shake (typical)
- Collar for 2" pipe
- Flatten or point
- Material to be 1/4" plate
- Protective apron
- Geotextile filter
- See note 2
- See note 3

See plate detail

- 1/4" x 2" carriage or machine bolts
- Cable clamp
- 1 1/4" x 3/4" Bar

Variable length to fit field conditions

24" pipe elbow to fit field conditions

24" pipe elbow to fit field conditions

20' (min.)

Machine bolts

24" Annular coupling band

Pipe anchor assembly

24" Pipe Culvert

24" Annular coupling band

Helical coupling band

Two piece integral flange die formed band for H.C.S.P.

24" End section

Fill slope as staked

24" End section
Notes to the Designer
Updated July 2021
24" Buried Run Down and Pipe Anchor Assembly

General Information
- Printing should be done from the [Sheet] View model

Applicable SCRs
- None

Typical Pay Item Used
- 25101-2200 Placed riprap, method B, class 2 and/or
- 25101-2300 Placed riprap, method B, class 3 and/or
- 25101-2400 Placed riprap, method B, class 4

- 60201-0800 24-inch pipe culvert
- 60210-0800 End section for 24-inch pipe culvert
- 60212-0800 Elbow, 24-inch
- 60602-0700 Pipe anchor assembly, 24-inch

Updates
- August 2020
  - Updated geotextile reference
- July 2021
  - Updated for OpenRoads Designer