**CATCH Basin No. 5**

**PLAN OF CATCH Basin**

- Outlet pipe
- Strap
- Bar
- Angle
- Aggregate of #57
- 6" Bedding
- Pedestal angle
- 1" x 1" x ' (min.)
- Aggregate of #57
- 6" Bedding
- Anchors (typ.)
- Partial depth resin bonded
- Ferrule loop per CMS 712.01

**SECTION A-A**

- Outlet pipe
- Strap
- Bar
- Angle
- Aggregate of #57
- 6" Bedding
- Pedestal angle
- 1" x 1" x ' (min.)

**SECTION B-B**

- Outlet pipe
- Strap
- Bar
- Angle
- Aggregate of #57
- 6" Bedding
- Pedestal angle
- 1" x 1" x ' (min.)

**SECTION C-C**

- Outlet pipe
- Strap
- Bar
- Angle
- Aggregate of #57
- 6" Bedding
- Pedestal angle
- 1" x 1" x ' (min.)

**NOTES:**
- 1" x 1" x ' pedestal angle
- 1" x 1" x ' (min.)
- Aggregate of #57
- 6" Bedding
- Pedestal angle
- 1" x 1" x ' (min.)

**See Sh. 2/2 for NOTES**
NOTES

GRATE AND FRAME: Use structural steel according to CMS 711.03 and 511. Provide a design essentially the same and equally as strong as the one shown.

GRATE: Depress the grate 3" below the upstream end of the concrete apron at the centerline of the ditch. Furnish and install grate "A" unless grate "B" is specifically required by the plans.

WALLS: Construct brick or cast-in-place walls with a nominal thickness of 8" from the bottom side to the upper edge.

PRECAST CONSTRUCTION: Permitted, except for the apron. Meet the concrete requirements of CMS 706. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

STEPS: Provide steps meeting the requirements of SCD MH-1 where the depth exceeds 6'.

BASINS OVER 12 FEET DEEP: Use precast or cast-in-place concrete. Reinforce with #3 bars on 9" centers both vertically and horizontally with 2" clearance from inside wall to flow.

LOCATION AND ELEVATION: When given on the plans, the location is the center of the grate. The elevation is the lowest point on the grate.

OPENINGS: Ensure pipe openings shall be the O.D. of the pipe being supplied plus 3" when fabricated or field cut. Fill any voids per CMS 611.

CONCRETE APRON: Construct aprons in such a manner that the outside edges are at equal elevations. If specified in the plans, grouted riprap may be used in place of the concrete apron.

DITCH PROTECTION: Provide a 60' length of ditch erosion protection as shown. Installation and payment for ditch erosion protection are per CMS 650.

BASINS IN SAG: When in a sag, and the earth dike and longitudinal slope of the grate, and provide concrete apron and ditch protection on each side of the basin.

PAYMENT: Per CMS 711.03, reinforce the side approximately midway between the top and bottom of the wall with 3" of fabricated reinforcement equivalent to #3 round bars, at 24" o.c. in two directions, or wire fabric according to SCD BP-11.

When itemized separately, payment for Item 601 Riprap using 6" Reinforced Concrete Slab includes the cost of the cutoff wall.

CONSTRUCTION INFORMATION

Typical weight of grate = 50 lbs.
Typical weight of Frame = 60 lbs.