SECTION A-A

See Sht. 2/2 for Notes

PLAN OF CATCH BASIN

OUTLET pipe

23/8"x5/8" strap

13/4"x3/4" min. pedestal angle

Notch, bend and weld angle

1/2" min. clearance between grate and frame at upper edge

CATCH BASIN No. 4

SECTION B-B

GRADE "E"

Ten-5/8" Bars at 3" c/c (27")

5/8"

GRADE "D"

Six-1" Bars at 5" c/c (25")

25/8"

ENLARGED SCALE

SECTION THRU GRATE
(TWO REQUIRED)

NOTES:
1/2" pedestal angles not shown

3/8" strap over angle sheet

CATCH BASIN No. 4

SECTION C-C

END GRATE STRAP

DETAIL "C"

(WITH OUTER EDGE)

Weld 2K" strap into all four corners of frame

6" Normal

1/2" min. Precast

10" x 10" x 1/4" (min.) angle

Pedestal angle 3"x2½"x3½"
NOTES

GRADE AND FRAME: Use structural steel according to CMS 711.01 and SIS. Provide a design essentially the same and equally as strong as the one shown.

GRADE: Depress the grate 3" below the upstream end of the concrete apron at the centerline of the grate. Furnish and install grate "E" unless grate "D" is specifically required by the plans.

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

PRECAST CONSTRUCTION: Permitted, except for the apron. Meet the concrete requirements of CMS 706.13. Provide precast walls of 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 BP-1.1 where the depth exceeds 6'.

BASES OVER 2 FEET DEEP: Use precast or cast-in-place concrete apron with #4 bars on 2' centers both vertically and horizontally with 2" clearance from inside wall face.

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

OPENINGS: Ensure pipe openings are the O.D. of the pipes being supported plus 2" when fabricated or field cut. Fill any voids per CMS 611.

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

DITCH PROTECTION: Provide a 150' length of ditch erosion protection as shown. Installation and payment for the ditch erosion protection are per CMS 611.

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

PAYMENT: The concrete apron with cutoff wall or grouted riprap and dike are incidental to Item 601 - Catch Basin, No. 4. However, the apron is not required when Item 601 - Catch Basin, No. 4, Without Apron, is specified.

When specified separately, payment for Item 611 Riprap using 6" reinforced concrete slab includes the cost of the cutoff wall.

As per CMS 601.04.0, reinforce the slab approximately midway between the top and bottom of the slab, with steel bars or fabricated reinforcement equivalent to #3 rounded bars, at 24" o.c. in two directions, or wire fabric according to SCD BP-1.1.

CONSTRUCTION INFORMATION

Typical weight of grate: 335 lbs.

Typical weight of frame: 100 lbs.