CATCH BASIN No. 2-2A

GENERAL: Catch Basins 2-2A and 2-2B are not intended for use in roadway applications. Catch Basin 2-2C is intended for parking lot use only.


GRATE AND FRAME: Furnish a design essentially the same and equally as strong as the one shown below, in fabrication information below, or meet the requirements of CMS 711. Provide grate openings and dimensions as shown here unless otherwise shown at the plans.

Cost the following text into the top of the grate:

"DUMP NO WASTE" and "STAINS TO WATERWAY"

Print text in bold, capital letters at least ½" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

WALLS: Construct brick or cast-in-place walls of at least 6" thickness. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and handling without damage. Do not use brick above the flow line of the side opening for type 2-2A.

CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 705.13 for all precast concrete and cast in place with the catch basin number.

PRECAST BASAL: If a precast basin is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate.

MINIMUM DEPTH: The minimum depth of CB No. 2-2A is the outside diameter (O.D.) of the outlet pipe plus 1".

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per C&MS 611.

2-2A SIDE INLETS: Provide inlets on both sides of the No. 2-2A catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use CB 2-2A basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use CB 2-2A within the Clear Zone. The flow line should be 5' to 6' below normal ditch returning to normal 5' to 10' each side of the inlet.

PAYMENTS: All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-2A.

CONSTRUCTION INFORMATION

| Minimum weight of grate, 100 lbs. | Minimum weight of frame, 40 lbs. |

CATCH BASIN OUTLET PIPE SIZE

| 2-2A, 2-2B, 2-2C | 24" to 30" |

SECTION THRU ANGLE FRAME

FOR STANDARD No. 2-2A CATCH BASIN
CATCH BASIN No. 2-2B

SECTION A-A

SECTION B-B

SECTION C-C

PLAN

NOTES


CB-2-2B GRATE: Furnish a grate essentially the same as and equally strong as the one shown here. Construction Information Table, or meet the requirements of CMS 706.13. Provide grate openings and dimensions as shown here unless otherwise shown on the plans.

If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-5250M (00525031) grate or approved equals.

Place grate elevation 4" (8) below normal ditch and return to normal 10' to 15' each side of inlet.

CB-2-2C FRAME & GRATE: Where the catch basin is specified for use in a parking lot, furnish Neenah No. R-1878-A5G or EJ No. V-5622 (45622010) frame and V-5622 (45622030) grate or approved equals. If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-3405 grate or EJ No. 5110M3 (00511043) grate or approved equals.

On cast-in-place and precast units, provide a level surface on the catch basin 4" below the top grate elevation for setting the frame and grate assembly. Provide a concrete apron to encase and secure the frame to the catch basin walls, with the top edge of the frame placed on or as shown in the plans. Grate apron to extend up to the top of the catch basin walls, provide local depression to allow for settlement.

GRATE TEXT: Cast the following text into the top of the grate:

"DRAINS TO WATERWAY" and "DUMP NO WASTE"

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

WALLS: Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls of at least 8" thick with sufficient reinforcing to permit shipping and handling without damage.

CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.

PRECAST BASE: If a precast base is used, set 1" deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, location and elevation are to the center of grate.

MINIMUM DEPTH: The minimum depth of CB No. 2-2B is the outside diameter (O.D.) of the outlet pipe plus 4". The minimum depth of CB No. 2-2C is the outside diameter (O.D.) of the outlet pipe plus 8".

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

PAYMENTS: All materials and labor, including excavation and backfilling, are paid for under Item 60 - Catch Basin No. 2-2B or 2-2C.

CONSTRUCTION INFORMATION

Minimum weight of grate, 39 lbs.

All grate edges to be rounded 1/4" radii.