

 Department of Design and Construction		SPECIFICATION BULLETIN	SB 26-004
Title: CATCH BASINS			
Prepared: 4/17/2026		Approved: 4/17/2026	
Mohammad Mahmud, P.E. Date Director, Specifications		How Sheen Pau, P.E. Date Associate Commissioner – Infrastructure Design	

APPLICABILITY:

- This Specification Bulletin (SB) is effective for projects advertised on or after 4/24/2026.

SUPERSEDEENCE:

- This SB supersedes the following SBs: **None.**

ATTACHMENTS:

1. *Section 51.41 (8 pages)*

REVISIONS TO THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD SEWER AND WATER SPECIFICATIONS, DATED 8/8/2022:

All references contained below are to the New York City Department of Environmental Protection Standard Sewer and Water Specifications, Dated August 8, 2022. Said Standard Specifications are hereby revised as follows:

- a) **Refer** to Section 51.41 - Catch Basins
Delete in its entirety Section;
Substitute the revised Section in Attachment 1 (8 pages)

For questions regarding this bulletin, please contact Richard Jones, jonesri@ddc.nyc.gov.

SECTION 51.41 – CATCH BASINS

51.41.1 DESCRIPTION

Catch basins must be constructed of the sizes and shapes shown, and the types specified; complete with frames, gratings, covers, hoods, hooks, hood hangers, and all other hardware as shown or required.

51.41.2 MATERIALS

- (A) Concrete must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**.
- (B) Brick and brick masonry must comply with the requirements of **Section 23.02**.
- (C) Frames must be of cast iron complying with the requirements of **Section 22.01**, Type 1, unless otherwise shown on the plans.
- (D) Hoods must be aluminum or cast iron. Hoods must be of one kind, unless otherwise shown on the plans.
 - (1) ALUMINUM HOODS
 - (a) Aluminum hoods and aluminum hood hangers must comply with the requirements of ASTM B26, marine grade. Aluminum castings must have a minimum tensile strength of twenty-two thousand (22,000) pounds per square inch.
 - (b) Installation hardware for hood hangers must be of one (1) type:
 - (i) Stainless steel anchors and nuts must be Grade 316; and must comply with the requirements of ASTM A240 or ASTM 276.
 - (ii) Carbon steel bolts must be to ASTM A307 Grade B (Heavy Hex). Carbon steel nuts must be to ASTM A563 Grade A (Heavy Hex). All carbon steel bolts and nuts must be either zinc coated per ASTM A123 or zinc plated per ASTM B633, and must be minimum Grade 75 (75 microns, 3.0 mils, 1.7 oz/ft²). Steel washers must be to ASTM F844 (Wide).
 - (2) CAST IRON HOODS
 - (a) Cast iron hoods and/or hooks are to only be installed for the replacement of existing cast iron hoods and/or hooks, or as directed by the Engineer.
 - (b) Cast iron hoods must meet the requirements of **Section 22.01**, Type 1.
 - (c) Hooks must be 18-8 stainless steel Type 303, one-half (1/2) inch square bar stock, and must comply with the requirements of ASTM A582. All other approved hangers together with fasteners must be stainless steel Type 316, complying with the requirements of ASTM A276.
- (E) Gratings and covers must be of cast iron, unless otherwise shown on the contract plans, complying with the requirements of **Section 22.01**, Type 1. Malleable iron or cast steel gratings and covers, when required, must comply with the requirements of **Section 22.01 and Section 22.04**.
- (F) Cement mortar must comply with the requirements of **Section 23.03**.
- (G) Reinforcement must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**.

51.41.3 CONSTRUCTION METHODS

(A) GENERAL

- (1) The Contractor is notified that all catch basins installed under the contract must be Type 1 Catch Basins, unless otherwise specified in the contract documents or directed by the Engineer.

- (2) Catch Basins must be constructed of the sizes and dimensions and of the types, and at the locations and to the elevations shown on the plans or as directed by the Engineer, and as shown on the Sewer Design Standards.
- (3) Catch Basins must be installed in accordance with final grade. The brick masonry or concrete for catch basins must be built to within such distance of the final grade as shown, specified or ordered.

(B) GENERAL CONSTRUCTION PROVISIONS

- (1) The requirements of **DIVISION IV - GENERAL CONSTRUCTION PROVISIONS** apply to the work to be done hereunder.
- (2) Frames, gratings, covers, hoods, hooks, hood hangers, and all other hardware must be in accordance with the Sewer Design Standards. The frames must be set on the masonry or concrete in a full bed of stiff fresh cement mortar.
- (3) The Contractor is notified that at all locations, specified in the contract documents or directed by the Engineer, requiring the installation of Catch Basins and for which there is no new sidewalk restoration called for under the contract, the following minimum work must be required to be performed in the sidewalk area. The Contractor must saw cut the existing sidewalk and curb at a distance of one (1) foot around the perimeter of the catch basin, excavate, place expansion joints all around, and then install a concrete curb and a four (4) inch thick concrete sidewalk within the removed sidewalk area (See Sewer Design Standards for Catch Basins). The cost for all labor and material required and necessary to construct this slab of concrete, including the saw cutting and removal of sidewalk and curb, placing of expansion joints, and reconstruction of curb and sidewalk, must be included in the prices bid for the respective catch basin items. No separate or additional payment will be made for this work.

(C) CATCH BASIN CONSTRUCTION

- (1) Catch basins must be built of the sizes and dimensions, and of the types shown on the plans or as directed by the Engineer, and as shown on the Sewer Design Standards. The following applies:
 - (a) The concrete for bases of catch basins must be deposited continuously for their entire area together with keys. Bases must be carefully protected from all injury during the progress of the work. The bases of catch basins must be true and smooth.
 - (b) Concrete in sidewalls of catch basins must be deposited continuously to the height and to the thickness approved and for their entire length.
 - (c) Concrete in roofs of catch basins must be deposited continuously for the full depths, and for the entire widths and lengths of the roofs. The outer surfaces of roofs must be finished true and smooth.
 - (d) Chutes for Type 3 Catch Basins must be poured in one (1) piece. The concrete must be deposited continuously for the entire dimensions of the chutes.
- (2) The locations of the catch basins shown on the plans are approximate only. The Contractor must, with the approval of the Engineer, establish the catch basin locations taking into consideration the following:
 - (a) Drainage of the area to the catch basin location.
 - (b) Damage to trees or their root system.
- (3) No catch basin must be installed in a location where a pedestrian ramp or driveway depressed curb exists. The minimum distance between a catch basin frame and grating and the end of a depressed curb apron must be one (1) foot.
- (4) All corner catch basins are to be located fully behind the property line of the intersecting street unless otherwise ordered, in writing, by the Engineer.

- (5) INSTALLING OF HOOD HANGERS OR OTHER HANGER HARDWARE FOR ALUMINUM HOODS - The Contractor must furnish and install in the catch basins, hooks and hoods of the size and shape shown on the Sewer Design Standards. Hooks or other hanger hardware must be placed integrally with the concrete or must be installed by drilling a core hole and either installing a thermoplastic insert or expansion anchor to except hardware, or setting hardware into nonshrink fresh grout or an approved nonshrink compound. The hood will be hanged on the hood hanger in front of the sewer pipe opening in the catch basin.
- (a) Inspect the catch basin wall on top of the sewer pipe. Clean it of any loose material make it flat. Note the material of the wall.
 - (b) Position the hood hanger on top of the sewer pipe so the bottom curved section of the hood hanger is as close as possible to the top of sewer and the sides of the hood hanger are vertical. Mark the top and sides with chalk or any marker.
 - (c) Remove the hood hanger and drill four holes suitable for the screws inside the vertical depressions in the hood hanger close to the top and bottom of the hood hanger depressions.
 - (d) Position the hood hanger inside the marks made earlier to the plate and mark the locations of the holes in the hood hanger with a marker.
 - (e) Push the anchors into the holes just made, and hammer lightly to push into the wall completely.
 - (f) Place the hood hanger on the wall and screw the hood hanger on the anchors.
 - (g) Pick up the hood and place it of the hood hanger securely.
 - (h) Verify the hood is completely covering the sewer pipe inlet.
- (6) INSTALLING OF HOOKS OR OTHER HANGER HARDWARE FOR CAST IRON HOODS
- (7) SETTING FRAMES, GRATES AND COVERS - The brick masonry or concrete for the catch basins must be built to within such distance of the final grade as shown, specified, or ordered. Frames, grates, and covers must be as shown on the Sewer Design Standards. The frames must be set on the masonry or concrete in a full bed of stiff fresh cement mortar.
- (8) REMOVAL OF FORMS - Forms must be removed in accordance with **General Specification 11 - Concrete, as modified in Section 23.01.**
- (9) REINFORCEMENT - The steel reinforcement must be of the dimensions and shapes shown; and must be installed in the manner specified in **General Specification 11 - Concrete, as modified in Section 23.01.**
- (10) CONNECTIONS
- (a) All connections to catch basins must be constructed as shown on the plans or as directed. All connections for future catch basin connections must be closed with bulkheads of brick masonry eight (8) inches thick, unless otherwise shown on the plans or specified.
 - (b) Catch basin connection pipe or catch basin connection pipe openings will not be permitted through the corner of catch basins. The distance from the edge of a pipe or an opening to the inside face of the adjoining wall must be a minimum of three (3) inches.
- (D) CATCH BASIN CONSTRUCTION WHERE NO CURB EXISTS
- (1) Where there are no existing curbs, the Contractor must survey the area and where possible, locate the proposed catch basins on the future curb line and use a three (3) inch thick asphalt apron to direct the surface flow to the new catch basin. A swale must be created for a minimum of three (3) feet around the catch basin.
 - (2) All work for catch basin construction where no curb exists must be done in accordance with the Sewer Design Standards.

- (3) Where no curbs exist, catch basins must be staked out (lines and grades) by a L.S. or a P.E., and signed and sealed layout sheets must be submitted to the Engineer prior to excavation. The Contractor must install the catch basins in accordance with the submitted layout sheets.

(E) ABANDONING EXISTING CATCH BASINS

- (1) Existing catch basins which are shown or ordered to be abandoned, or which are made unnecessary by the construction of new catch basins, must be abandoned in accordance with **Subsection 10.13(C)**. The curb, sidewalk, and pavement affected by the catch basin abandonment must be permanently restored to match the existing condition.
- (2) The Contractor must restore the area with new sidewalk, curb, and roadway in a manner that will provide positive drainage to the new catch basins and eliminate the ponding that may otherwise occur in the area of the abandoned catch basins. Existing catch basin connections must be bulkheaded. The cost of all labor, materials, and equipment required and necessary to abandon existing catch basins in accordance with **Subsection 10.13(C)**, including bulkheading of catch basin connections and restoration of sidewalks and curbs must be deemed included in the prices bid for all items of work. No separate or additional payment will be made for the abandoning of existing catch basins unless specific items are provided for in the Bid Schedule.

51.41.4 PRECAST REINFORCED CONCRETE CATCH BASINS

- (A) DESCRIPTION - The Contractor is advised that in lieu of poured-in-place catch basins the substitution of Precast Reinforced Concrete Catch Basins that comply with the Sewer Design Standards will be permitted for Catch Basins (Types 1, 2, and 3), and for Double Catch Basins. All requirements of **Section 51.41** apply unless otherwise amended herein.

(B) MATERIALS

- (1) Concrete must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**.
- (2) Portland Cement must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**, and must be Type II unless otherwise specified. Coarse and Fine Aggregate for concrete must be well graded in accordance with **Subsection 2.6.1.1 of General Specification 11 - Concrete, as modified in Section 23.01**. Size of Coarse Aggregate must be three-quarter (3/4) inch unless smaller size aggregate is required due to nature of work.
- (3) Reinforcement must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**.
- (4) Welded Steel Wire Fabric must comply with the requirements of **General Specification 11 - Concrete, as modified in Section 23.01**, and must have a minimum specified yield strength of sixty-five thousand (65,000) pounds per square inch.
- (5) High range water reducing admixtures meeting the requirements of ASTM C494 Type F and having been previously approved by the New York State Department of Transportation may be used.

(C) DETAILS

- (1) The minimum dimensions, minimum reinforcement, and minimum requirements utilized for the construction of precast reinforced concrete catch basins must conform to the Sewer Design Standards that are deemed a part of this contract.
- (2) Precast reinforced concrete catch basins must be manufactured in one (1) piece, as shown.

(D) TESTING

- (1) Concrete utilized in the construction of precast reinforced concrete catch basins must be tested in conformance with **General Specification 11 - Concrete, as modified in Section 23.01**, with the exception that the concrete, steel reinforcement, fabrication, and manufacture must be tested and certified as to compliance by an independent Testing Laboratory licensed in the State of New York and approved by the Department of Design and Construction.

- (2) Testing must also conform to all applicable sections of **DIVISION III - INSPECTION OF MATERIALS, SAMPLING, AND METHODS OF TEST** of these specifications.
 - (3) In addition, all manufacture of catch basins must be witnessed by an approved licensed independent Testing Laboratory and Certified as to Compliance with the standard drawings and with these specifications.
 - (4) The cost of all testing as described above must be deemed included in the price bid per catch basin.
- (E) OPENINGS FOR LATERAL CONNECTIONS - All catch basin connection pipe openings must conform to the sizes, dimensions, and requirements specified on the Sewer Design Standards for Precast Catch Basins. Each catch basin connection pipe opening must be provided for at the time of manufacture.
- (F) SUBMISSIONS BY THE CONTRACTOR - Prior to delivery of precast catch basins, the Contractor must submit three (3) copies of the manufacturer's Drill Sheets to the Engineer for review. These sheets must note all pipe entries, final grades, etc. The Engineer's review of such submissions must in no way absolve the Contractor from full responsibility as to the correctness of each precast catch basin with regard to details, contract plans, standards, and specifications.
- (G) MANUFACTURE
- (1) Precast catch basins must be built in conformance with the standard drawings and must be cast in steel forms.
 - (2) Devices used to position reinforcement must be made of, or coated with, material so that corrosion of the device will not occur. Sufficient devices must be provided to position the reinforcement for required concrete cover.
 - (3) Concrete must be thoroughly consolidated by internal or external vibration or a combination of both.
- (H) CURING
- (1) All precast catch basins must be subjected to curing by one of the following methods:
 - (a) STEAM CURING - Catch basins may be placed in a curing chamber, free from outside drafts, and cured in a moist atmosphere maintained at a temperature between one hundred (100) degrees Fahrenheit and one hundred sixty (160) degrees Fahrenheit, by the injection of steam for a period of not less than twelve (12) hours or, when necessary, for such additional time as may be needed to enable the pipe to meet the strength requirements. Steam curing must not commence until at least two (2) hours have elapsed since completion of placement of concrete in the forms. When a curing chamber is not available, catch basins may be placed in an enclosure of canvas and subjected to steam around the entire catch basin at the temperature and for the time specified above. The enclosure must be so erected as to allow full circulation of steam around the entire catch basin. The interior surface of the curing room or canvas jackets and the surfaces of the catch basin must be entirely moist at all times.
 - (b) WATER SPRAY CURING - Under the conditions of enclosure described in the above paragraph on "Steam Curing", catch basins may be cured by subjecting them to a continuous fine spray of water in an enclosure maintained at a temperature of not less than seventy (70) degrees Fahrenheit for a period of not less than seventy-two (72) hours or such additional time as may be necessary to meet the strength requirements.
 - (c) SATURATED COVER CURING - The sides and top of each catch basin must be covered with heavy burlap or other suitable material saturated with water before applying and kept saturated at a temperature of not less than seventy (70) degrees Fahrenheit for seventy-two (72) hours or such additional time as may be necessary to meet the strength requirements.

- (2) Precast catch basins must not be subjected to freezing temperatures until the required twenty-eight (28) day compressive strength is achieved.
- (I) INSTALLATION
 - (1) All precast catch basins must be installed in accordance with the standards and specifications for Precast Catch Basins and as directed by the Engineer.
 - (2) Where directed by the Engineer, a two (2) inch thick select granular fill cushion must be provided in order to assure uniform bedding at subgrade. The cost of the above work must be included in the prices bid for the catch basins.
- (J) MARKINGS - The manufacturer must mark each catch basin with permanent markings on the inside of each catch basin. The following minimum information must be listed:
 - (1) Date of Manufacture
 - (2) Manufacturer's Logo
 - (3) Individual Piece Identification
 - (4) ASTM Designation
- (K) DELIVERY OF CATCH BASINS – Catch basins must not be delivered to the job site until they have attained the specified twenty-eight (28) day compressive strength as evidenced by cylinder testing. In addition, five (5) copies of all test results, steel supplier certifications, independent Testing Laboratory certifications, and fabrication and manufacture certifications must be submitted to the Engineer prior to delivery or at the time of delivery.

51.41.5 MEASUREMENT

The quantities of catch basins to be measured for payment must be the number of catch basins of each size and type, incorporated in the work, complete, as shown, specified, or required.

51.41.6 PRICE TO COVER

The contract price for "CATCH BASINS" must be the unit price bid per each size and type catch basin and must cover the cost of all labor, materials, plant, equipment, samples, tests, and insurance required and necessary to construct the catch basins of the sizes and dimensions, and of the types and at the locations and to the elevations shown, including the earth excavation of all materials of whatever nature encountered (See **Section 40.03 - Earth Excavation**); reinforcement; all sheeting and bracing; pumping; fluming; bridging; breaking down and filling in of abandoned sewer appurtenances; connections; backfilling; cleaning up; and furnishing and installing all other items necessary to complete this work and do all work incidental thereto, all in accordance with the plans, specifications and standards, and as directed by the Engineer. Included in the price hereunder must be the cost for all labor and materials required to install frames, gratings, covers, hoods, hood hangers, hooks, and all other hardware; in accordance with the plans, specifications, and standards, and as directed by the Engineer. No separate or additional payment for the above work.

The cost of installing curbs and three (3) inch thick asphalt aprons in accordance with **Subsection 51.41.3(D)** where no curbs exist as shown on the plans or as ordered by the Engineer, must be included in the contract price bid for "CATCH BASINS".

In addition, included in the price hereunder must be the cost of all labor and materials necessary to remove all specified or ordered existing sewers, manholes, structures, catch basins and appurtenances, that may be in the line of the work and do all work incidental thereto, all in accordance with **Subsections 10.13 and 10.28** of the specifications and as directed by the Engineer.

Where precast reinforced concrete catch basins are used in lieu of poured-in-place catch basins, the cost for furnishing, delivery, and installation of the precast reinforced concrete catch basins, complete with chutes for Type 3 catch basins; reinforcement; frames; gratings; covers; hoods; hood hangers; hooks; and other hardware; additional excavation and sheeting, as required; select granular fill; hand excavation; connections; and all work incidental thereto all in accordance with the plans, specifications and standards,

must be included in the contract price bid for "CATCH BASINS". No additional or separate payments will be made for any work associated with the installation of precast reinforced concrete catch basins.

51.41.7 NO SEPARATE PAYMENT

No separate or additional payment will be made for hoods, hood hangers, and installation hardware for hood hangers in the catch basins installed under the contract. The costs thereof must be included in the unit price bid for catch basins.

51.41.8 SEPARATE PAYMENT

Where the substitution of a new (Standard Type 3 or other Kind and Number) catch basin is ordered by the Engineer to replace a new (Standard Type 1 or Standard Type 2 or other Kind and Number) catch basin that was originally shown or specified to be constructed, payment for this substitution must be made as specified under **Section 51.42**.

Payment for the cost of modifying existing catch basins must be made under the unit price bid for the respective bid items under **Section 51.71**.

Payment for catch basin connections must be made under the unit price bid for the respective bid items under **Section 52.11**.

Payment for Catch Basins will be made under the Item Number as calculated below:

The Item Numbers for Catch Basins have nine characters. (The decimal point is considered a character, the third character.)

- (1) The first five characters must define Catch Basins:

51.41

- (2) The sixth character must define the Kind of Catch Basin:

S - Standard Catch Basin
D - Standard Double Catch Basin
P - Special Catch Basin
W - Shallow Catch Basin

- (3) The seventh, eighth, and ninth characters must define either the Type of Catch Basin for Standard Catch Basins or the Number of the Catch Basin for Special Catch Basins or Shallow Catch Basins. See examples below:

002 - Type 2
000 - No Number/No Type
003 - No. 3
012 - No. 12
18A - No. 18A

- (4) Examples of Item Numbers together with Description and Pay Unit as provided in the Bid Schedule are provided below:

Item No.	Description	Pay Unit
51.41S001	STANDARD CATCH BASIN, TYPE 1	EACH
51.41S002	STANDARD CATCH BASIN, TYPE 2	EACH
51.41S003	STANDARD CATCH BASIN, TYPE 3	EACH
51.41D001	STANDARD DOUBLE CATCH BASIN, TYPE 1	EACH
51.41D002	STANDARD DOUBLE CATCH BASIN, TYPE 2	EACH
51.41P000	SPECIAL CATCH BASIN	EACH
51.41P001	SPECIAL CATCH BASIN NO. 1	EACH
51.41P002	SPECIAL CATCH BASIN NO. 2	EACH
51.41P012	SPECIAL CATCH BASIN NO. 12	EACH
51.41P18A	SPECIAL CATCH BASIN NO. 18A	EACH
51.41W000	SHALLOW CATCH BASIN	EACH

Specification Bulletin SB 26-004

Attachment 1

51.41W001	SHALLOW CATCH BASIN NO. 1	EACH
51.41W002	SHALLOW CATCH BASIN NO. 2	EACH