

NOTES

GENERAL: With normal soil and site conditions, this standard precast manhole may be used for any required manhole depth. Cast out assemblies sections of the precast manhole with either all tongue or all groove ends up. Lift holes may be provided in each section for handling. Leave handling device for the flat slab in place.

TOP: Provide a flat slab for this section unless an eccentric cone or flat slab.

TRANSITION (OR REDUCER): This section can be either eccentric cone or flat slab.

BASE: Manhole No. 3 is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately, provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirements. Bottom channels may be formed if concrete is placed in the base or field constructed as shown on SCD MH-1.1 and MH-3.1.

RISER SECTIONS: Openings for 4\"/>

CONNECTIONS: Connections between precast manhole sections and pipes on sanitary sewers may be sealed with resilient connectors conforming to ASTM L 923.

JOINT SEALS: Furnish resilient seal between precast manhole sections on sanitary sewers and flexible gasket joints per CMS 706.11.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2\"/>

MATERIALS: Provide materials for bases and other precast sections, including reinforcement as specified herein, that meet the requirements of CMS 706.13.

DROP PIPES: When specified on the plans, construct drop pipe as shown on SCD MH-1.1.

STEPS, FRAMES AND COVERS: Meet the requirements shown on SCD MH-1.1.

TOP SLAB REPAIR: Use epoxy coated reinforcing steel within the top slab.

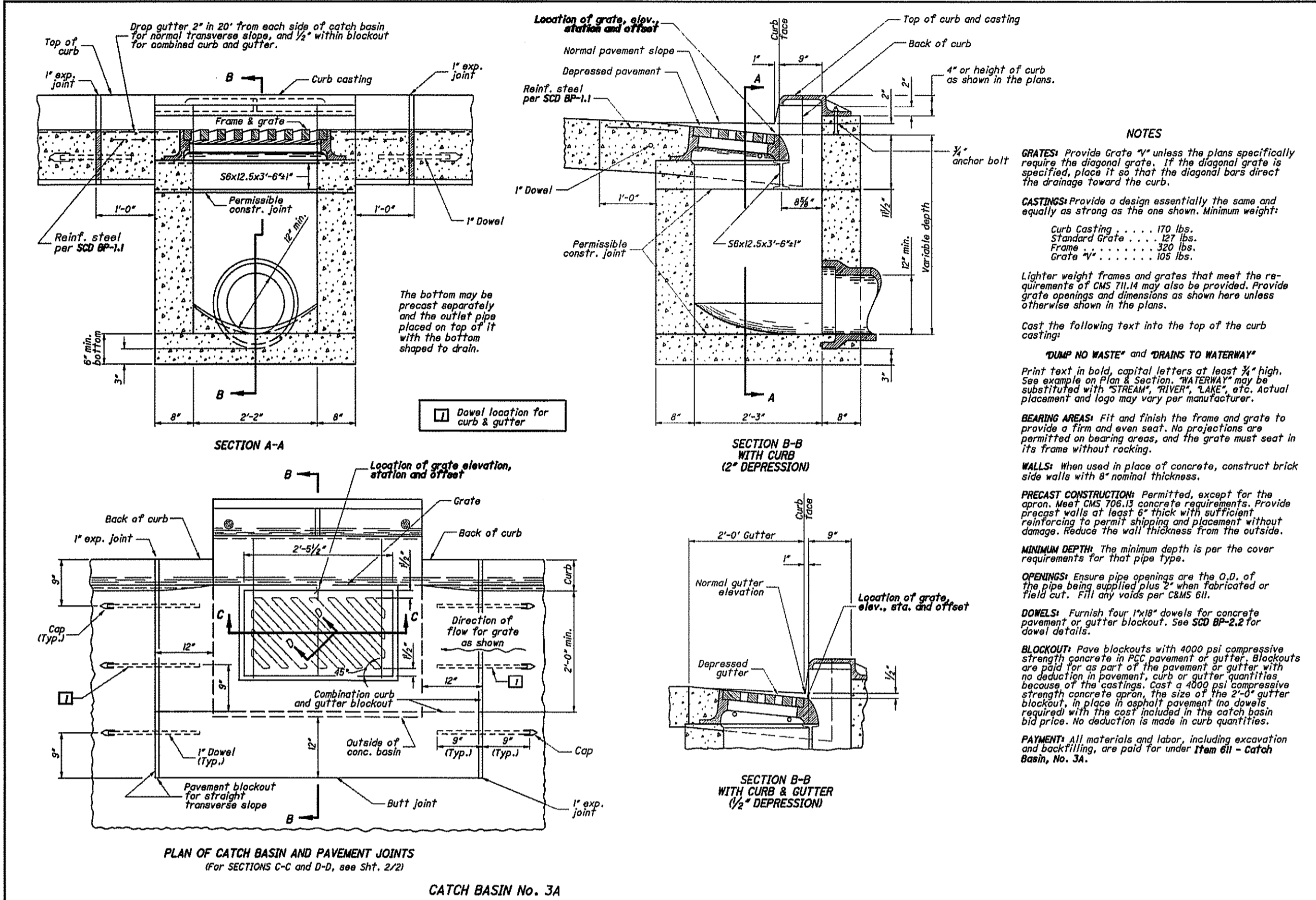
LEGEND

1 Reconstruction to grade only, approved materials are kept on file by the Office of Materials Management.

BASE I.D.	MIN. #"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
96"	7 1/2"	60"
96"	8"	66"
108"	9"	72"

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OFFICE OF HYDRAULICS ENGINEERING M. Cozzoli
 MANHOLE No. 3
 MH-1.2
 1/2



NOTES

GRATES: Provide grates 1/2\"/>

CASTINGS: Provide a design essentially the same and equally as strong as the one shown. Minimum weight:
 Curb Casting 170 lbs.
 Standard Grate 120 lbs.
 Frame 120 lbs.
 Grate 120 lbs.

Lighter weight frames and grates that meet the requirements of CMS 711.14 may also be provided. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

Cast the following text into the top of the curb casting:
 "DUMP NO WASTE" and "DRAINS TO WATERWAY"

Print text in bold, capital letters at least 3/16\"/>

BEARING AREAS: Fit and finish the frame and grate to provide a firm and even seat. No projections are permitted on bearing areas, and the grate must seat in its frame without rocking.

WALLS: When used in place of concrete, construct brick side walls with 8\"/>

PRECAST CONSTRUCTION: Permitted, except for the grates. Meet CMS 706.13 concrete requirements. Provide precast walls of least 8\"/>

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2\"/>

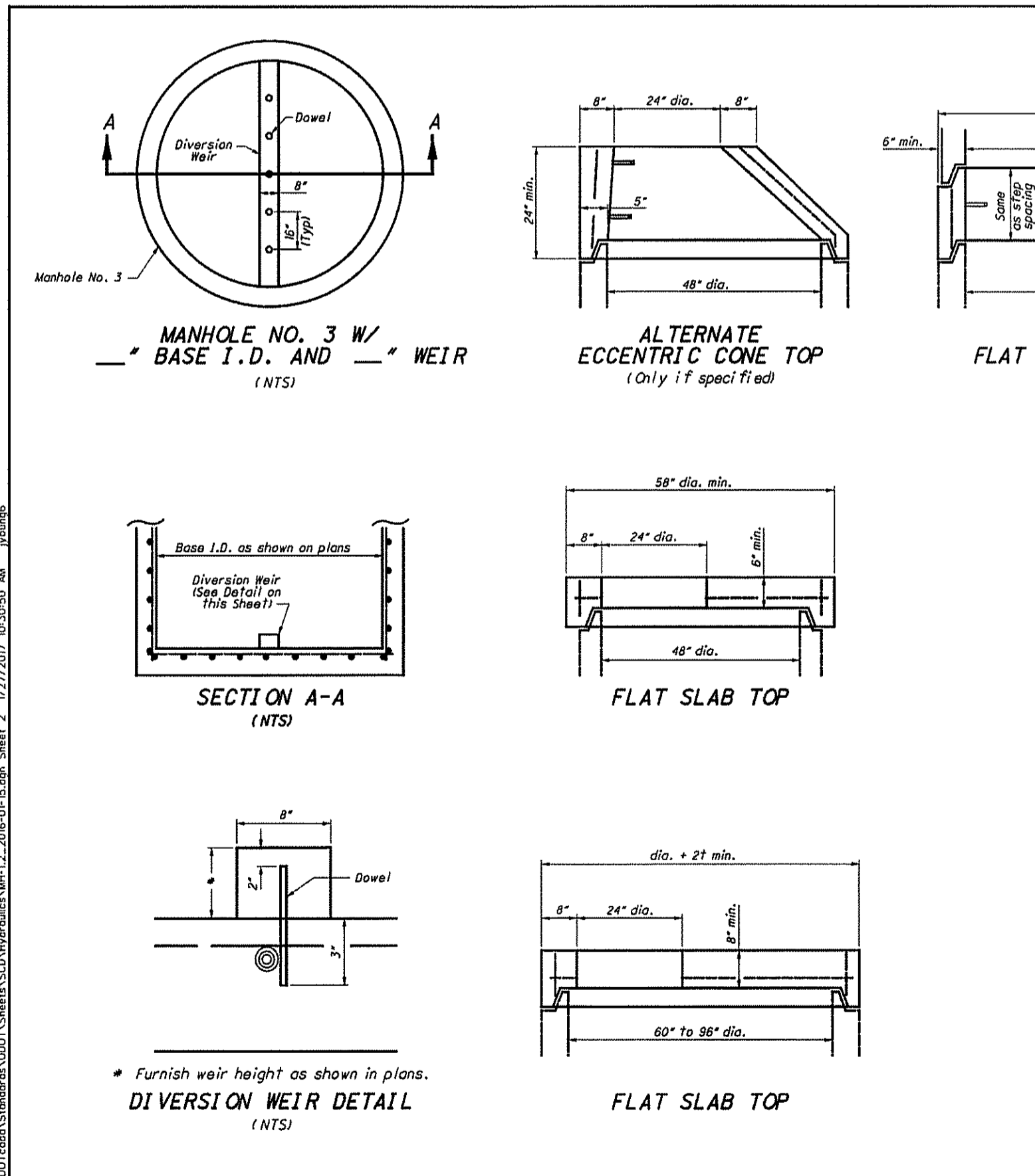
DOWELS: Furnish four 1/2\"/>

BLOCKOUTS: Place blockouts with 4000 psi compressive strength concrete in top pavement or gutter. Blockouts are paid for as part of the pavement or gutter with no deduction in pavement, curb or gutter quantities because of the cost. Cost a 4000 psi compressive strength concrete again, the size of the 2\"/>

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 3A.

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OFFICE OF HYDRAULICS ENGINEERING M. Cozzoli
 CATCH BASIN No. 3A
 CB-2.2
 1/2



NOTES

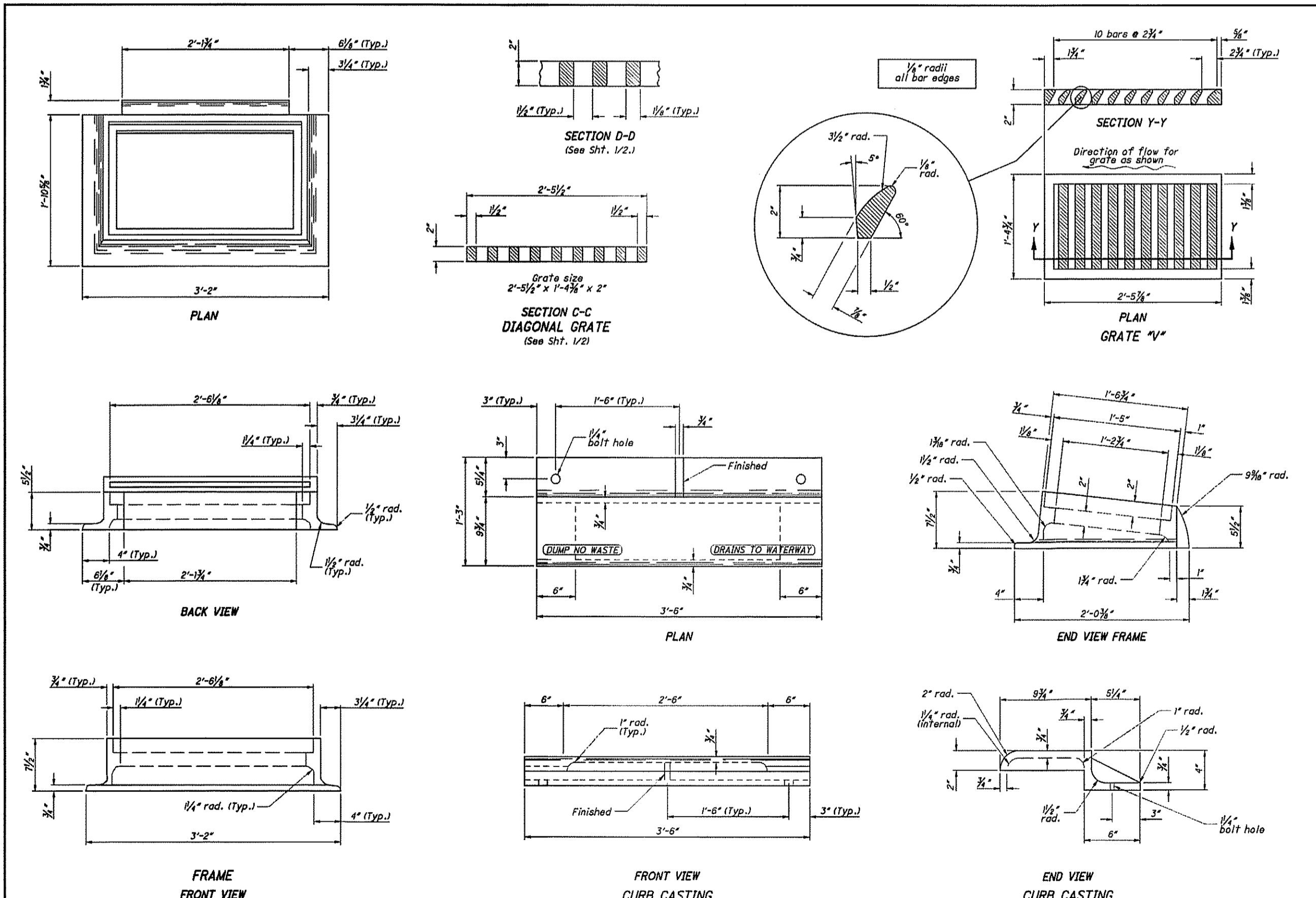
MANHOLE NO. 3 W/ BASE I.D. AND WEIR: Furnish manhole base with precast diversion weir or concrete diversion weir from Structural Concrete, 4000 psi compressive strength concrete or brick and masonry units conforming to CMS 611. A bottom channel section for the manhole is not required when a diversion weir is specified on the plans.

Place diversion weir perpendicular to flow of inflowing trunk sewer. Dowel concrete or masonry units into the base of the manhole to a depth of 3\"/>

All materials and labor, including excavation and backfill, are paid for at the contract price for ITEM 611 - MANHOLE NO. 3 WITH BASE I.D. AND WEIR.

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OFFICE OF HYDRAULICS ENGINEERING M. Cozzoli
 MANHOLE No. 3
 MH-1.2
 2/2



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OFFICE OF HYDRAULICS ENGINEERING M. Cozzoli
 CATCH BASIN No. 3A
 CB-2.2
 2/2

N
 NE
 SW
 SE

VERTICAL SCALE IN FEET
 0
 100
 200

HORIZONTAL SCALE IN FEET
 0
 100
 200

CHECKED BY: KAD
 DATE: June, 2020
 DRAWN BY: BMH
 DATE: June, 2020

DATE	DESCRIPTION

CIVPRO
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 ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
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 PHONE: (234) 460-3910 EMAIL: KAD@CIVPROENGINEERING.COM
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DRAWING NAME:
 REF NUMBER:
 18 / 29