# INLET SPECIAL (TYPE A GUTTER)

**SEC. A-A**

- EDGE OF PAVEMENT
- FRAME AND GRATE TYPE 9
- TOP OF MASONRY
- FACE OF INLET
- OPTIONAL CONSTRUCTION JOINT
- 600 (24)
- 150 (6), 600 (24), 150 (6)
- 375 (15), 375 (15)
- 350 (14)
- "H"
- 75 SAND CUSHION (3) IF PRECAST
- 150 (6), 75 (3)

\* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

**SEC. B-B (Frame and Grate Type 9 top view)**

- FRAME AND GRATE TYPE 9
- 150 (6), 600 (24), 150 (6), 300 (12)
- OPTIONAL CONSTRUCTION JOINT
- "H"
- NO. 15 (NO. 4) BARS AT 300 (12) CTS.

**Plan view (FLOW, A-A, B-B)**

## NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 200kg (440 LBS.).
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1524 (60).

## FRAME AND GRATES TYPE 9

**SECTION B-B**

CAST FRAME (GRAY IRON) WT. 145 Kg. (320 LBS.)

**SECTION A-A**

- 15 (⁵⁄₈) dia. Hole
- 15x50 (⁵⁄₈x2) Slotted Hole
- 10 (³⁄₈) Sq. bar welded to grate bar.
- Galvanized, M12 (¹⁄₂) Bolt Nut and Washer.

**LOCKING DEVICE DETAIL F**

## DETAIL OF FRAME & GRATE

NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 PSI) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLAB, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

**END VIEW**

**STEEL GRATE** WT. 43 Kg. (95 LBS.)

**SECTION E-E**
See Detail F

FINISH
STEEL GRATE SHALL BE GIVEN ONE SHOP COAT OF BLACK BITUMINOUS PAINT.

**SECTION D-D**

**SECTION C-C**
① = 159 (6¹⁄₄) max. (typ.)
② = 19 (³⁄₄) min. (typ.)

**CAST GRATE** 54 kg (120 lbs.)

## GENERAL NOTES

THE MATERIAL FOR STEEL GRATE SHALL CONFORM TO ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

THE USE OF EITHER A CAST GRATE OR A STEEL GRATE WITH THE CAST FRAME SHALL BE THE OPTION OF THE CONTRACTOR.

THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTING SHALL BE GRADE 65-45-12.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-27-00
REGION 2 / DISTRICT 2 STANDARD
CONTRACT NO.
SCALE: 1.0000 / IN. SHEET NO. OF SHEETS STA. TO STA.
PLOT DATE = Fri Sep 18 09:30:27 2009
INLET SPECIAL (TYPE A GUTTER) 11.2

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# INLET SPECIAL

**SEC. A-A**

- EDGE OF PAVEMENT
- TOP OF GRATE
- CURB BOX ADJUSTABLE TO 225 (9) HIGH
- TOP OF MASONRY
- FACE OF INLET
- OPTIONAL CONSTRUCTION JOINT
- 600 (24)
- 150 (6), 600 (24), 150 (6)
- 375 (15), 375 (15)
- 350 (14)
- "H"
- 75 SAND CUSHION (3) IF PRECAST
- 150 (6), 75 (3)

\* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

**SEC. B-B**

- 150, 900 (36), 150, 300 (12)
- OPTIONAL CONSTRUCTION JOINT
- "H"
- NO. 15 (NO. 4) BARS AT 300 (12) CTS.

**Plan view (FLOW, A-A, B-B)**

## NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ± .
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft).

## DETAIL OF FRAME & GRATE

NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

**PLAN OF FRAME** — 1092 (43), 787 (31)

**PLAN OF GRATE** — 35 (1³⁄₈) DIAGONAL BARS WITH 32 (1¹⁄₄) OPENINGS. 902 (35¹⁄₂), 51 (2), FLOW DIRECTION

**PLAN OF GRATE \*** — 902 (35¹⁄₂), 603 (23³⁄₄), 51 (2)

**SECTION A-A** — 51R (2), 152 (6), ADJUSTABLE 102 (4), 610 (24), 787 (31)

**SECTION B-B** — 927 (36¹⁄₂), 914 (36), 1092 (43)

\* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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REGION 2 / DISTRICT 2 STANDARD
CONTRACT NO.
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