**TYPE 4**

**TYPE 4A**
For Placement on 18" RCP

- 19.625 ± 0.125
- 2" max.
- 1½ min.
- Hole Optional

**TYPE 4B**
For Placement on 24" RCP

- 25.625 ± 0.125
- 2" max.
- 2½ min.

**TYPE 4C**
For Placement on 30" RCP

- 32.625 ± 0.125
- 2" max.
- 1½ min.

**TYPE 4D**
For Placement on 36" RCP

- 38.625 ± 0.125
- 2" max.
- 1½ min.

**TYPE 3**
(Light Duty)

**TYPE 3A**
For Placement on 18" RCP

- 19.625 ± 0.125
- 6½ min.
- 10" max.
- Hole Optional

**TYPE 3B**
For Placement on 24" RCP

- 25.625 ± 0.125
- 1½ min.

**TYPE 5**
(Light Duty)
For Placement on 24" to 30" RCP

- 33"
- 20½ ± 0.125
- 8½
- Flow

**CASTINGS FOR AREA INTAKES**

REVISIONS:
- Added Type 7 casing. Modified arena radius.
**CASTINGS FOR AREA INTAKES**

**TYPE 6**

- Minimum Weight = 85 lbs.
- Diagram: Grate and Frame dimensions.

**TYPE 7**

- Minimum Weight = 75 lbs. (Light Duty)
- Diagram: Grate and Frame dimensions.

**TYPE 9**

- Minimum Weight = 85 lbs.
- Diagram: Grate dimensions.

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1. Frame provided in three segments (two ends and one center). Bolt segments together as specified by the casting manufacturer.

2. Provide bicycle safe, vane style grates with a minimum open area of 4 square feet. At low points, grates with vanes facing both directions will be allowed.

3. If required by casting manufacturer, provide support beam under all frame joints. Modify structure walls as required to provide pocket for beam.

4. Cast grate without locking lugs so it may be used in an inverted position.

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**REVIZION:** Added Type 7 casting. Modified circle notes.