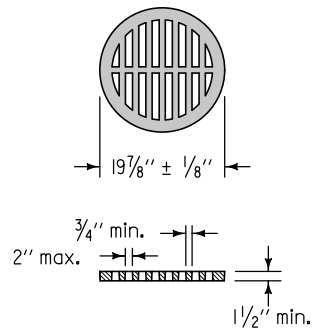
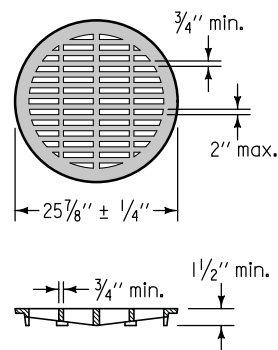


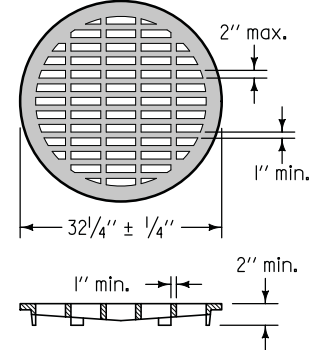
## TYPE 4



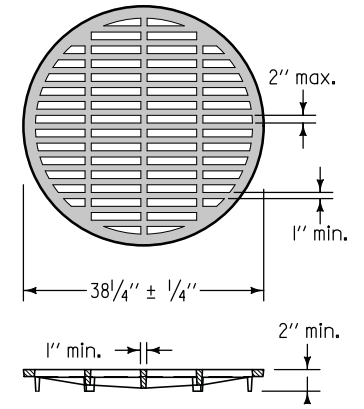
**TYPE 4A**  
For Placement on 18" RCP



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

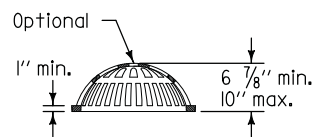
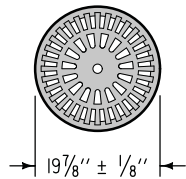


**TYPE 4C**  
For Placement on 30" RCP

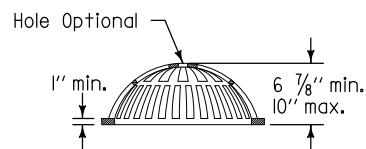
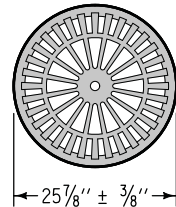


**TYPE 4D**  
For Placement on 36" RCP

## TYPE 3 (Light Duty)

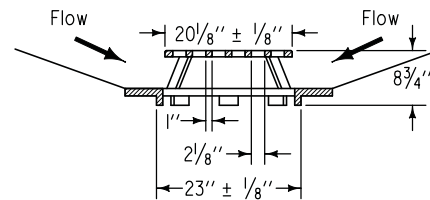
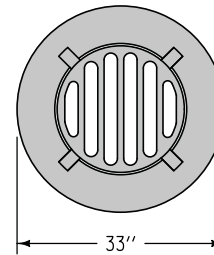


**TYPE 3A**  
For Placement on 18" RCP



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

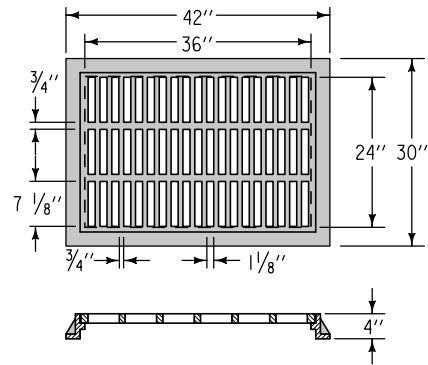
## TYPE 5 (Light Duty) For Placement on 24" to 30" RCP



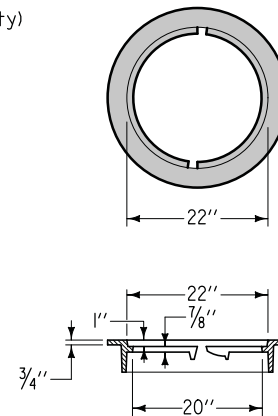
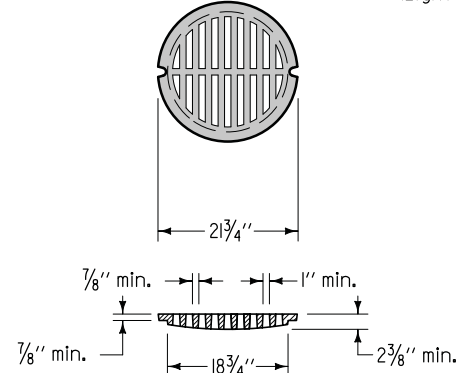
|                                                                                                                |                                                                                                                                    |                                                                                                                         |                 |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|
|  <b>SUDAS</b>             |  <b>Iowa Department<br/>of Transportation</b> | <b>REVISION</b>                                                                                                         |                 |
|                                                                                                                |                                                                                                                                    | <b>1</b>                                                                                                                | <b>10-20-09</b> |
| <b>FIGURE 6010.604</b>                                                                                         | <b>STANDARD ROAD PLAN</b>                                                                                                          | <b>SW-604</b>                                                                                                           |                 |
|                                                                                                                |                                                                                                                                    | <b>SHEET 1 of 2</b>                                                                                                     |                 |
| <b>REVISIONS:</b> Added Type 9 Grate to sheet 2. Added shading.                                                |                                                                                                                                    |                                                                                                                         |                 |
| <br><b>SUDAS DIRECTOR</b> |                                                                                                                                    | <br><b>DESIGN METHODS ENGINEER</b> |                 |

**CASTINGS FOR AREA INTAKES**

TYPE 6



TYPE 9  
(Light Duty)



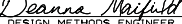
GRATE<sup>①</sup>

Minimum Weight = 85 lbs.

FRAME

Minimum Weight = 75 lbs.

① Cast grate without locking lugs so it may be used in an inverted position.

|                                                                                                         |                                                                                                                            |                                                                                                                                      |          |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
|  SUDAS             |  Iowa Department<br>of Transportation | REVISION                                                                                                                             |          |
|                                                                                                         |                                                                                                                            | 1                                                                                                                                    | 10-20-09 |
| FIGURE 6010.604                                                                                         | STANDARD ROAD PLAN                                                                                                         | SW-604                                                                                                                               |          |
|                                                                                                         |                                                                                                                            | SHEET 2 of 2                                                                                                                         |          |
| REVISIONS: Added Type 9 Grate to sheet 2. Added shading.                                                |                                                                                                                            |                                                                                                                                      |          |
| <br>SUDAS DIRECTOR |                                                                                                                            | <br>Deanna Mailfield<br>DESIGN METHODS ENGINEER |          |
| CASTINGS FOR AREA INTAKES                                                                               |                                                                                                                            |                                                                                                                                      |          |