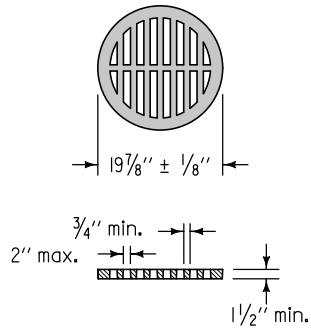
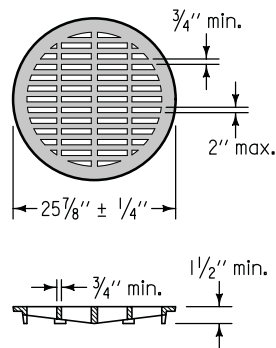


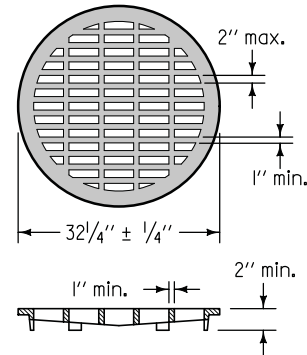
TYPE 4



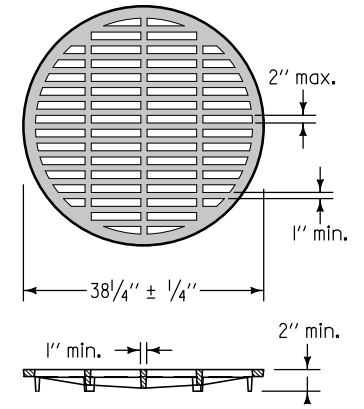
TYPE 4A
For Placement on 18" RCP



TYPE 4B
For Placement on 24" RCP

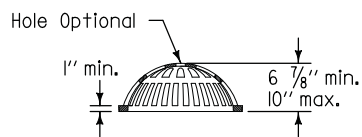
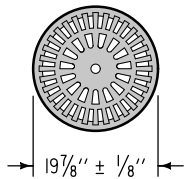


TYPE 4C
For Placement on 30" RCP

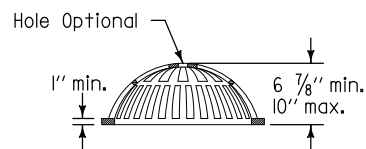
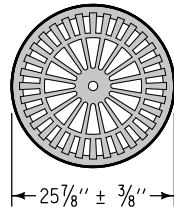


TYPE 4D
For Placement on 36" RCP

TYPE 3 (Light Duty)

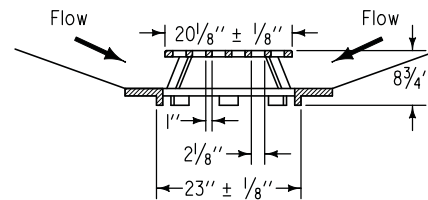
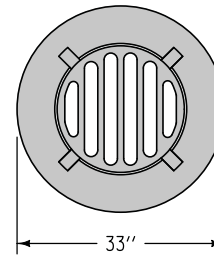


TYPE 3A
For Placement on 18" RCP



TYPE 3B
For Placement on 24" RCP

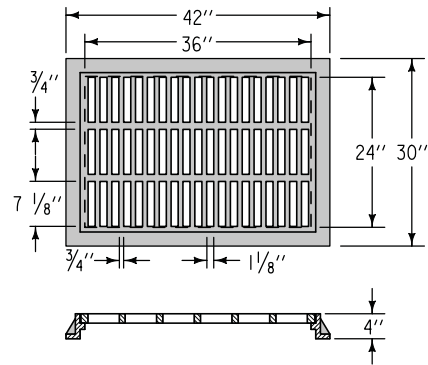
TYPE 5 (Light Duty) For Placement on 24" to 30" RCP



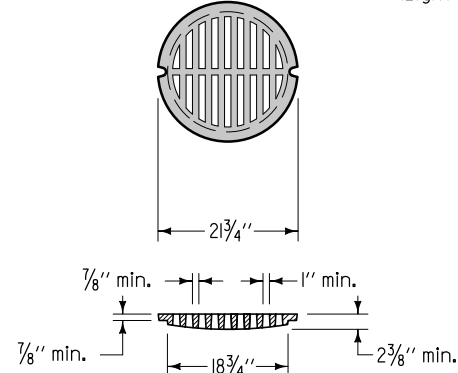
REVISION	
1	10-20-09
SUDAS Iowa Department of Transportation	
FIGURE 6010.604 STANDARD ROAD PLAN SW-604 SHEET 1 of 2	
REVISIONS: Added Type 9 Grate to sheet 2. Added shading.	
SUDAS DIRECTOR	Deanna Maifeld DESIGN METHODS ENGINEER

CASTINGS FOR AREA INTAKES

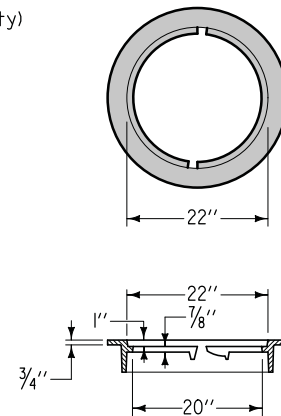
TYPE 6



TYPE 9
(Light Duty)

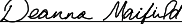


GRATE^①
Minimum Weight = 85 lbs.



FRAME
Minimum Weight = 75 lbs.

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

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