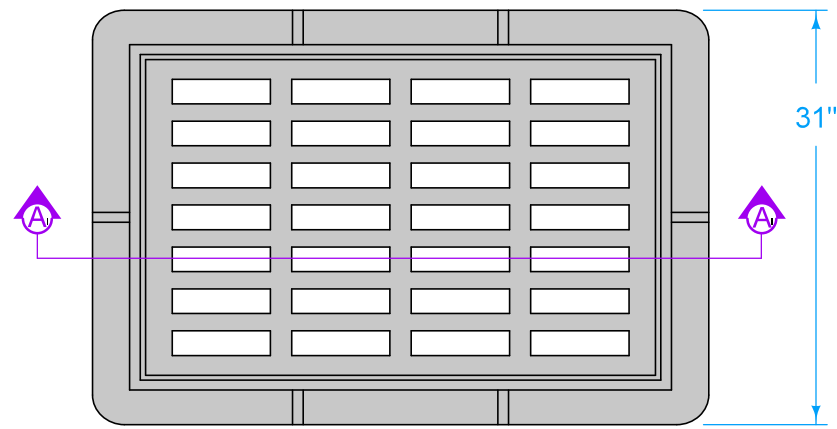
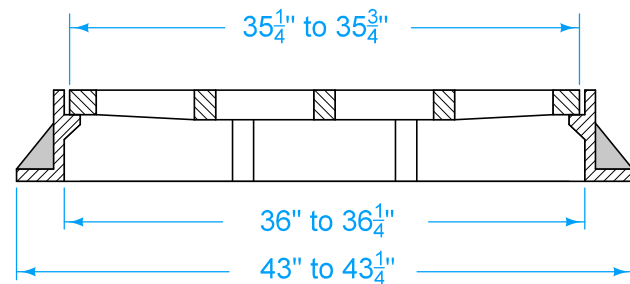


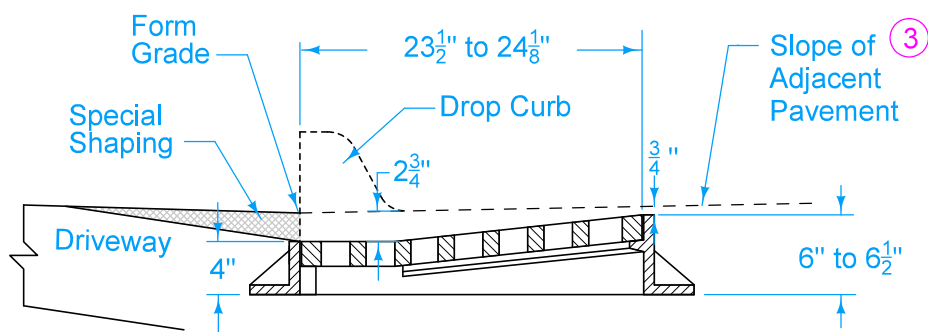
**TYPE Q** <sup>①</sup>  
 Driveway Gate  
 (Minimum open area 370 in<sup>2</sup>)



PLAN

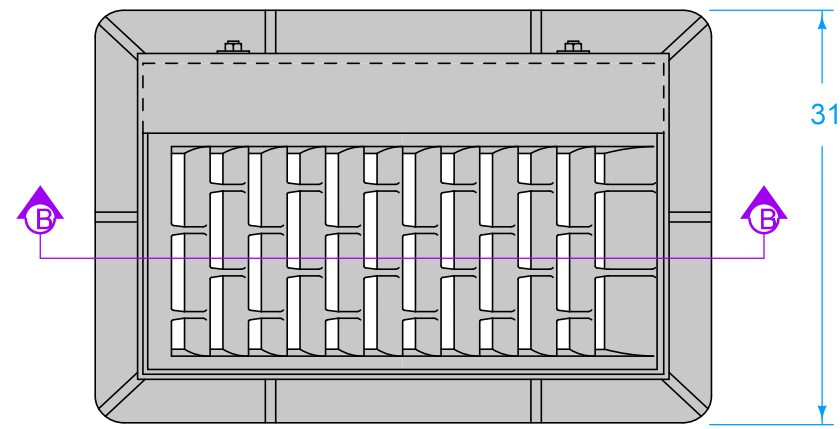


SECTION A-A

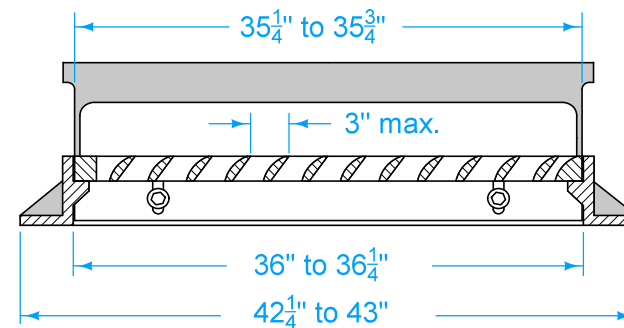


TYPICAL SECTION

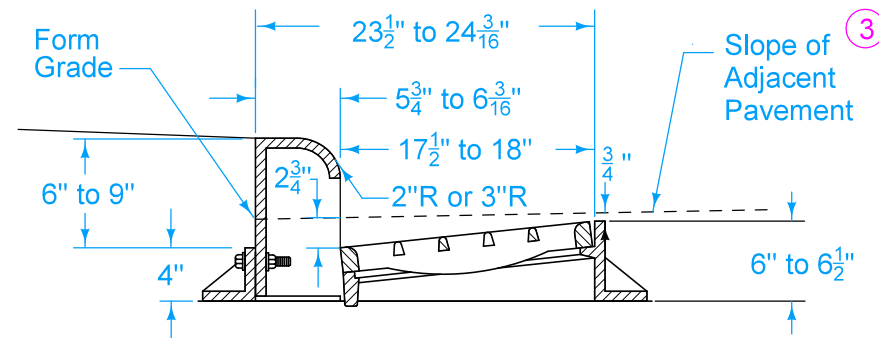
**TYPE R** <sup>②</sup>  
 Curb Inlet Gate  
 (Minimum open area 180 in<sup>2</sup>)



PLAN



SECTION B-B



TYPICAL SECTION

- ① For use at curb drops for driveways. Use only when specified in the contract documents.
- ② Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed.
- ③ For details of boxout pavement, refer to [SW-514](#).

FIGURE 6010.603 SHEET 1 OF 2

SUDAS IOWA DOT	REVISION
	6   10-16-18
<b>FIGURE 6010.603</b> <b>STANDARD ROAD PLAN</b>	<b>SW-603</b> SHEET 1 of 2

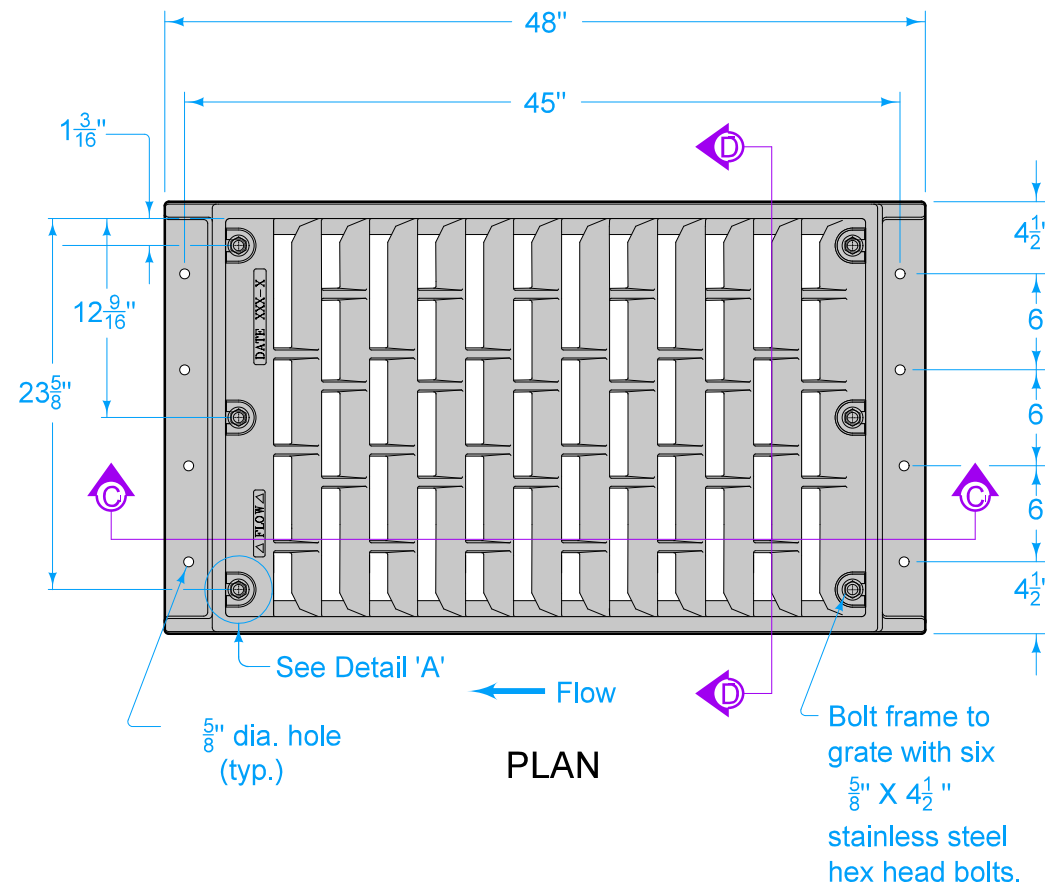
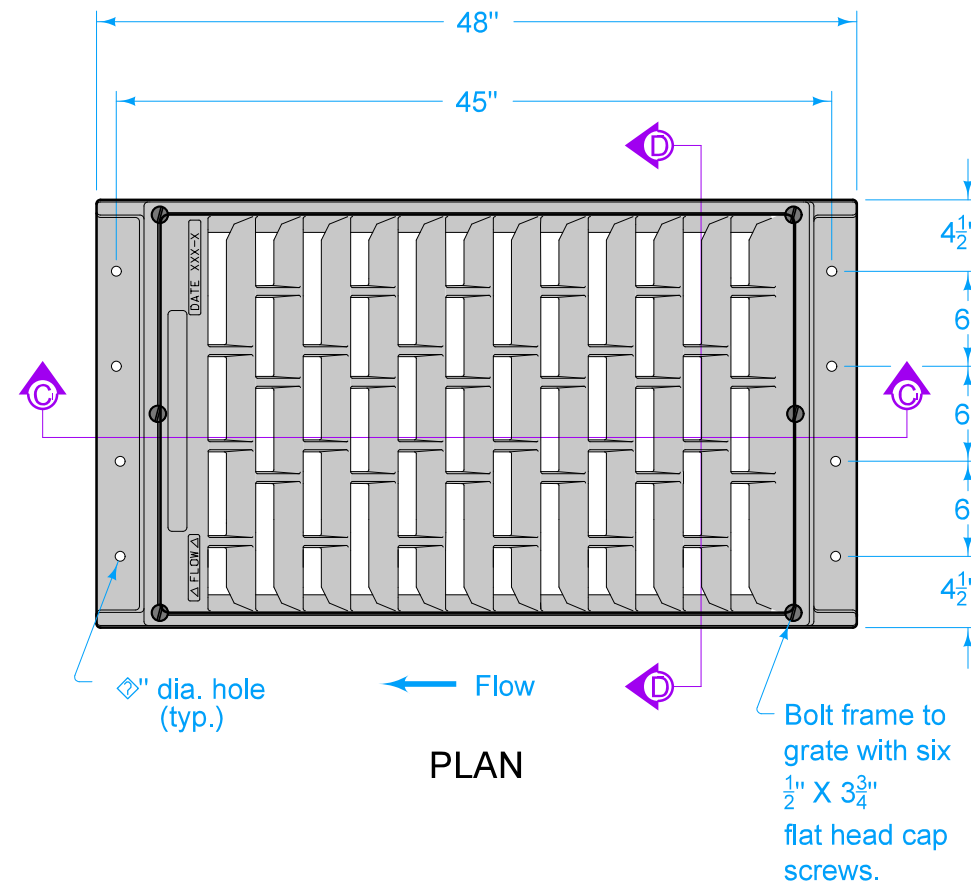
REVISIONS: Corrected typo on page two that said SHEET 1 of 2.

Paul D. Wrigand  
 SUDAS DIRECTOR

Stuart Miller  
 DESIGN METHODS ENGINEER

**CASTINGS FOR GRATE INTAKES**

**TYPE S** ②④  
 Barrier Intake Grate  
 (Minimum open area 300 in<sup>2</sup>)



- ② Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed. The Contractor has the choice of which Type S Grate to use.
- ④ Use ductile iron frame castings meeting the requirements of ASTM A 536.

Frame minimum weight = 220 lbs.  
 Grate minimum weight = 340 lbs.

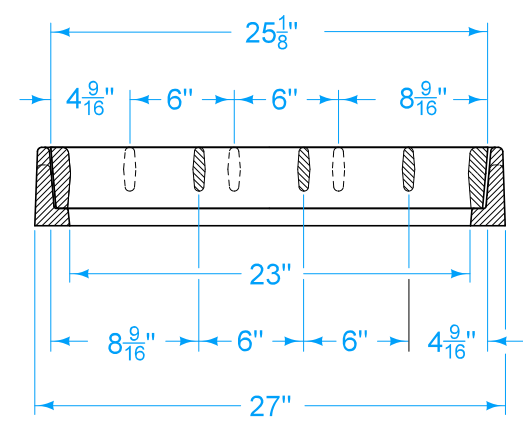
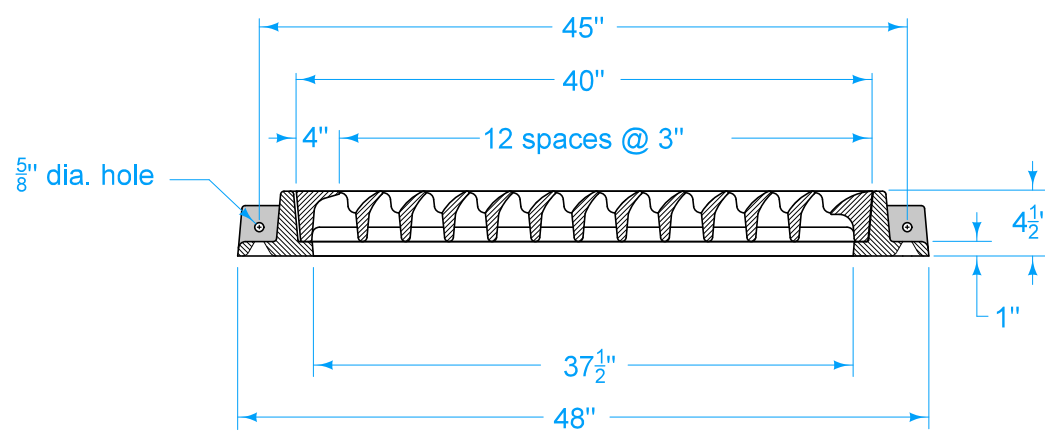
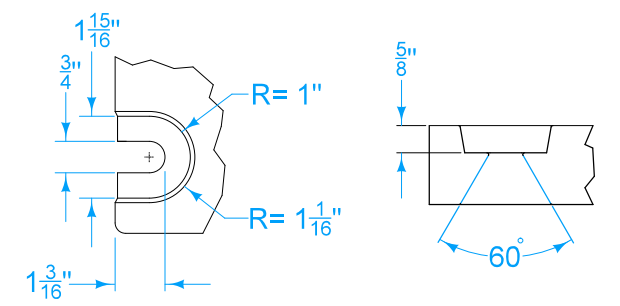


FIGURE 6010.603 SHEET 2 OF 2

SUDAS IOWA DOT	REVISION 6   10-16-18	
	<b>SW-603</b> SHEET 2 of 2	
REVISIONS: Corrected typo on page two that said SHEET 1 of 2.		
<i>Paul D. Wrigand</i> SUDAS DIRECTOR	<i>Stuart Miller</i> DESIGN METHODS ENGINEER	
<b>CASTINGS FOR GRATE INTAKES</b>		