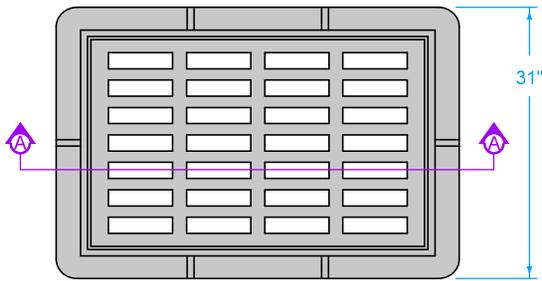
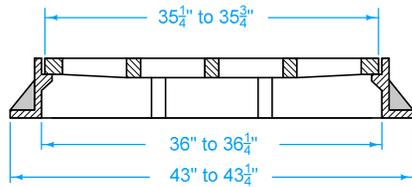


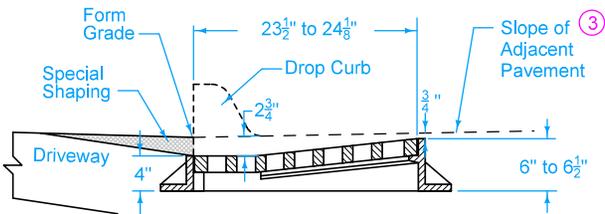
TYPE Q ^①
 Driveway Grate
 (Minimum open area 370 in²)



PLAN

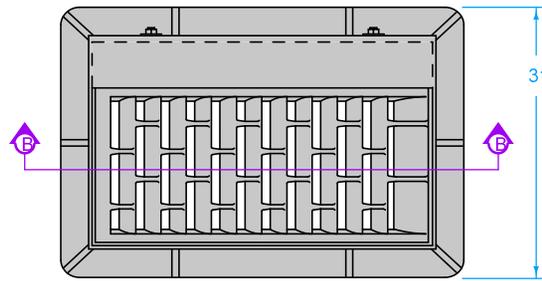


SECTION A-A

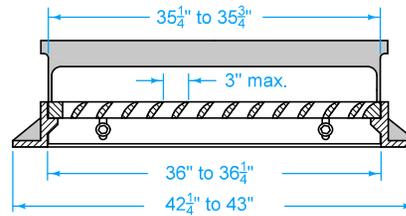


TYPICAL SECTION

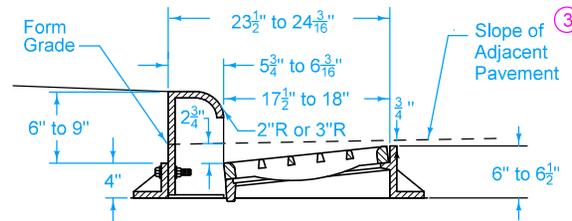
TYPE R ^②
 Curb Inlet Grate
 (Minimum open area 180 in²)



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	IOWADOT	REVISION
		6 10-16-18
FIGURE 6010.603	STANDARD ROAD PLAN	SW-603
		SHEET 1 of 2

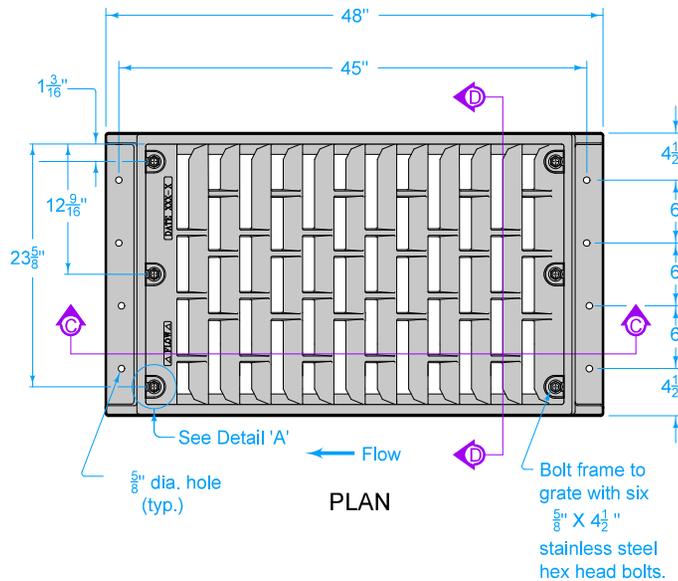
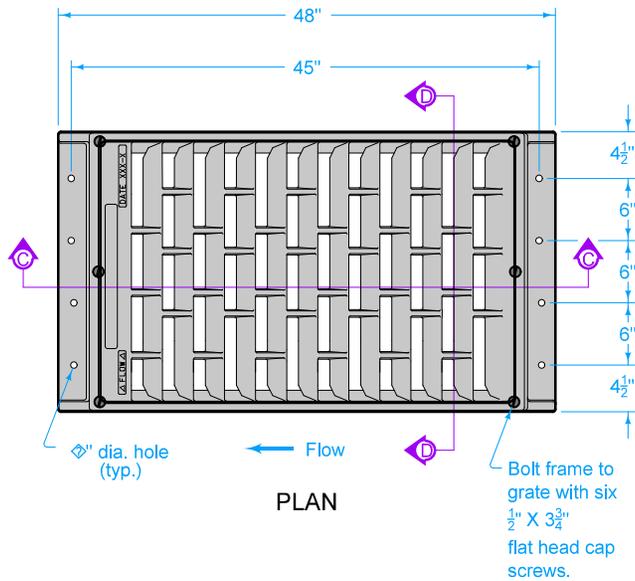
REVISIONS: Corrected typo on page two that said SHEET 1 of 2.

Paul D. Wigand
 SUDAS DIRECTOR

Design Methods Engineer

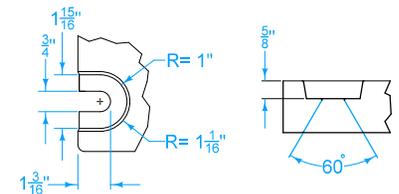
CASTINGS FOR GRATE INTAKES

TYPE S (2) (4)
 Barrier Intake Gate
 (Minimum open area 300 in²)

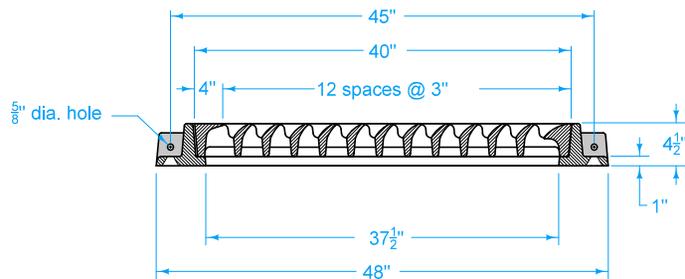


- (2) Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed. The Contractor has the choice of which Type S Grate to use.
- (4) Use ductile iron frame castings meeting the requirements of ASTM A 536.

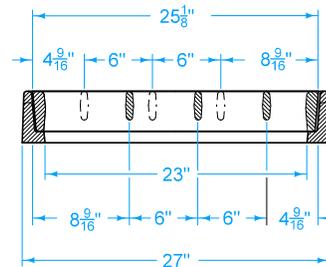
Frame minimum weight = 220 lbs.
 Grate minimum weight = 340 lbs.



DETAIL 'A'
 Bolt Slot Detail



SECTION C-C



SECTION D-D

SUDAS	IOWADOT	REVISION
		6 10-16-18
FIGURE 6010.603	STANDARD ROAD PLAN	SW-603
		SHEET 2 of 2

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

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Robert Phelan
 DESIGN METHODS ENGINEER

CASTINGS FOR GRATE INTAKES