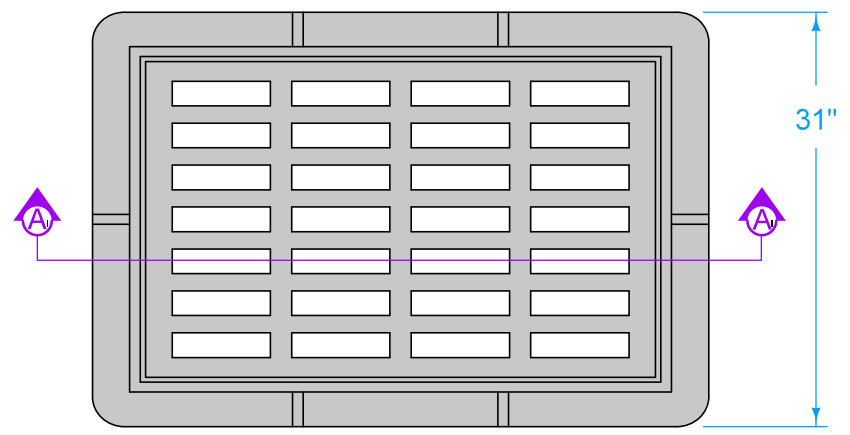
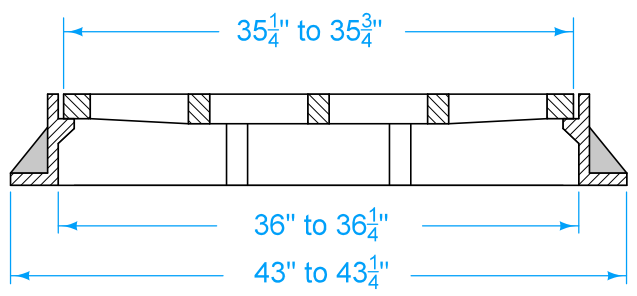


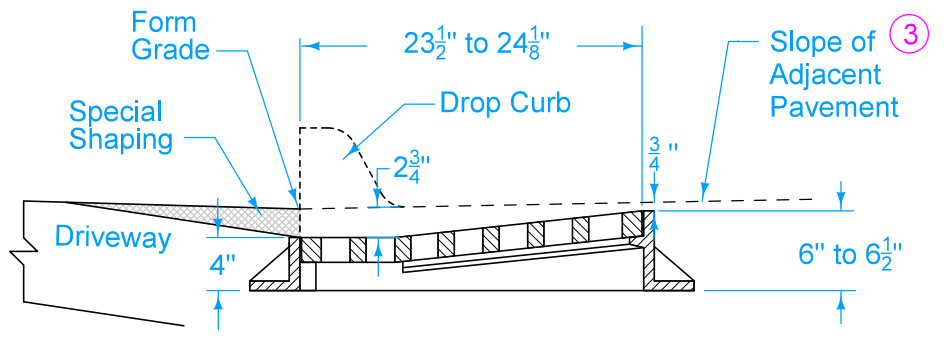
TYPE Q ^①
 Driveway Gate
 (Minimum open area 370 in²)



PLAN

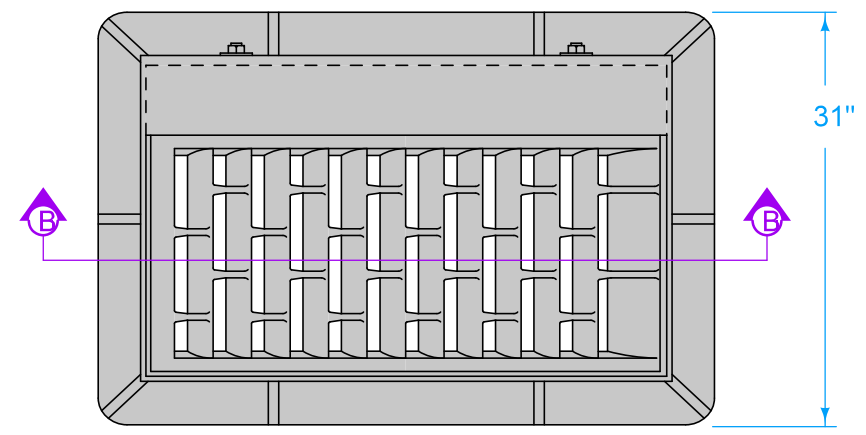


SECTION A-A

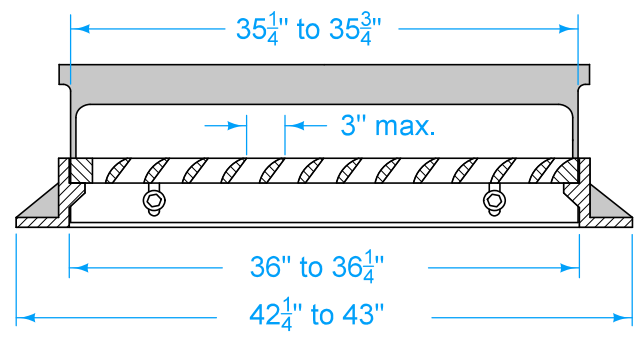


TYPICAL SECTION

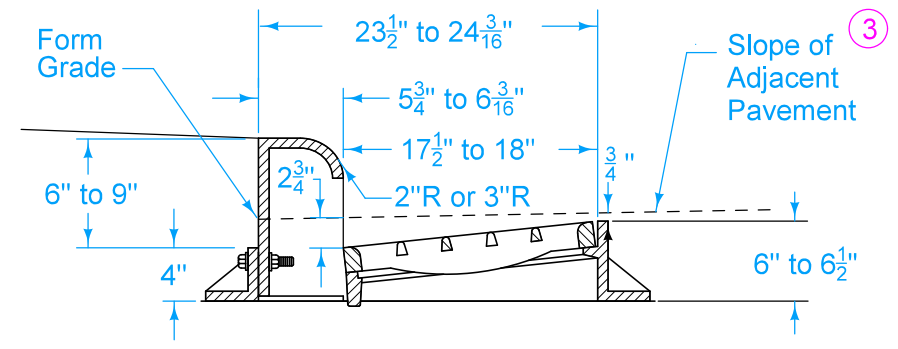
TYPE R ^②
 Curb Inlet Gate
 (Minimum open area 180 in²)



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

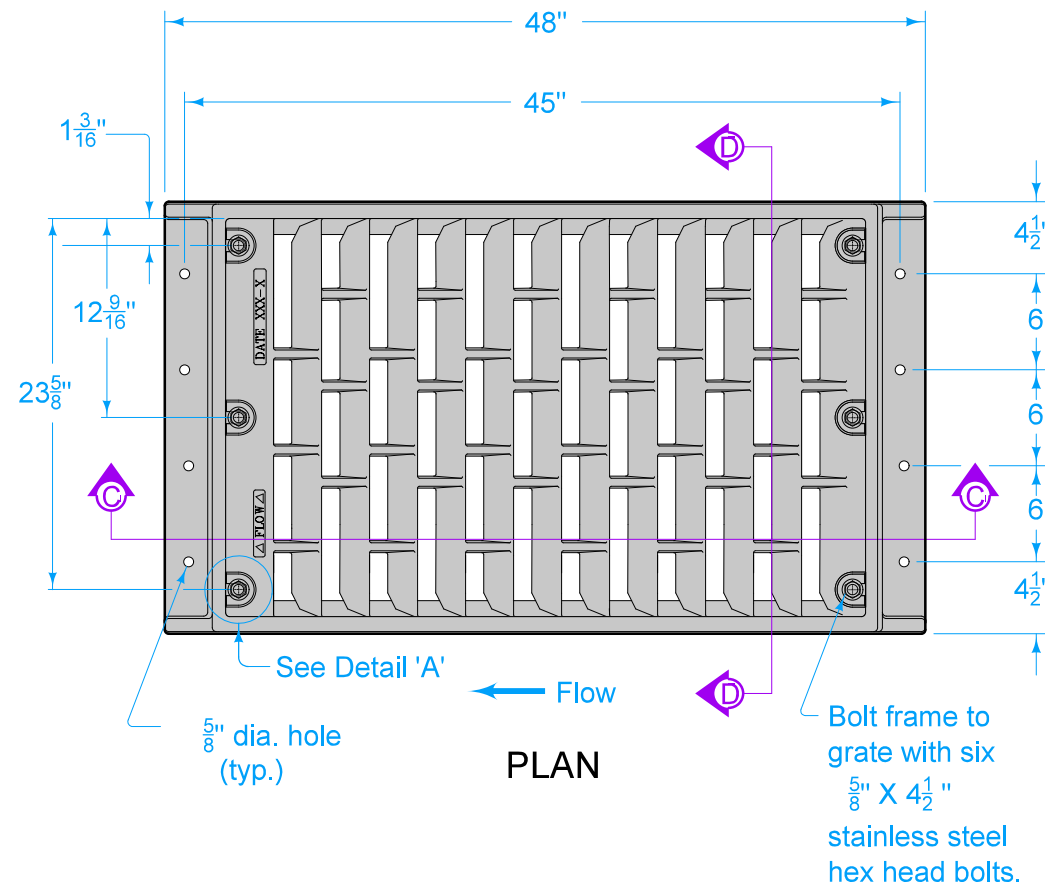
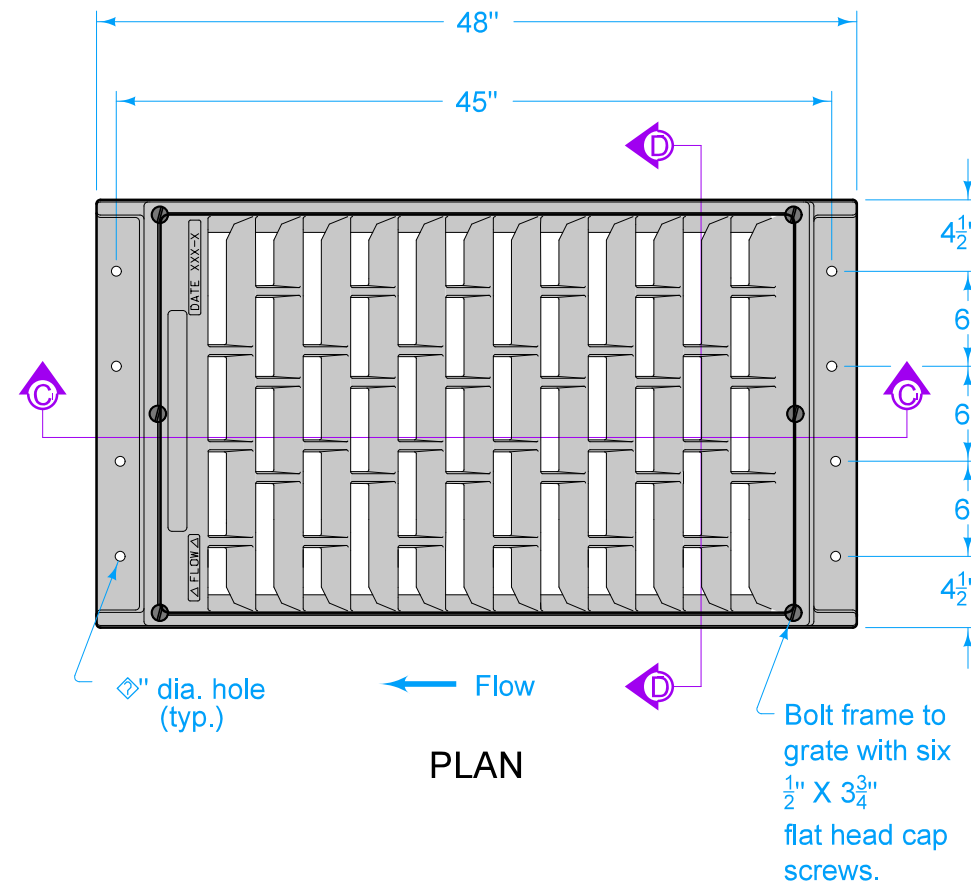
REVISIONS: Corrected typo on page two that said SHEET 1 of 2.

Paul D. Wrigand
 SUDAS DIRECTOR

Stuart Miller
 DESIGN METHODS ENGINEER

CASTINGS FOR GRATE INTAKES

TYPE S ②④
 Barrier Intake Grate
 (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.

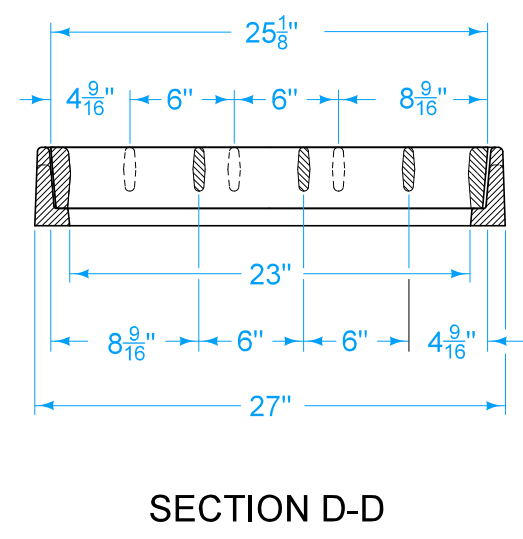
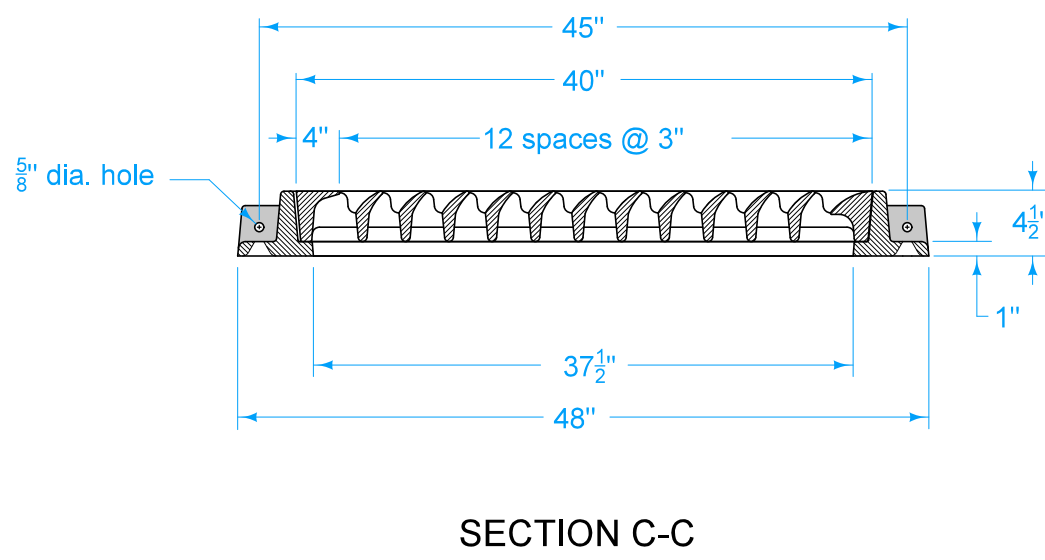
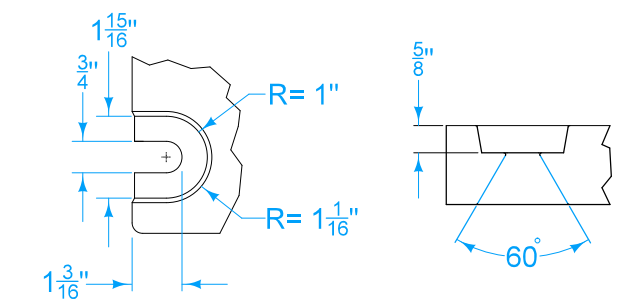


FIGURE 6010.603 SHEET 2 OF 2

| | |
|--|---|
| SUDAS IOWA DOT | REVISION 6 10-16-18 |
| | SW-603 SHEET 2 of 2 |
| FIGURE 6010.603 STANDARD ROAD PLAN | 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 |
| CASTINGS FOR GRATE INTAKES | |