Adjacent walls may have different widths based upon pipe configuration, but structure must be rectangular.

1. Provide two #4 hoop bars at top opening and at all pipe openings.

2. Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

3. Wall widths vary with pipe diameter and range from 4 feet minimum to 9 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.

4. 12 inch minimum wall height above all pipes.

### TYPICAL SECTION

- **Wall Height**: 27" dia.
- **Wall Width**: Short Wall Width
- **Concrete Fillet**: (Typ.)
- **Hoop Bars**: Two #4
- **Top Opening**: 10" x 12" min.
- **Depth**: (12'-0" max.)
- **Flowline**: Lowest
- **Adjustment Rings**: 4
- **Base**: 4b1
- **SW-602 Casting**: 27" dia.

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**STORM SEWER MANHOLE**

**DEEP WELL RECTANGULAR**

**SW-403**

**FIGURE 6010.403**

**STANDARD ROAD PLAN**

**SUDAS DIRECTOR**

**DESIGN METHODS ENGINEER**

**SUDAS**

**IOWADOT**

**REVISED** 04-17-18

**REVISIONS**: Changed 'Invert' callout to 'Concrete Fillet'. Updated line work and DOT and SUDAS logo.

**FIGURE 6010.403 STANDARD ROAD PLAN**
FIGURE 6010.403
STORM SEWER MANHOLE

1. Provide two #4 hoop bars at top opening and at all pipe openings.
2. Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of walls.
3. Wall widths vary with pipe diameter and range from 4 feet minimum to 9 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.

**REINFORCING BAR LIST**

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**SECTION A-A**

- BENT BARS
  - Short Wall plus 8"
  - 4w1
  - 4b1
  - 4t1

- Wall Height minus 4"