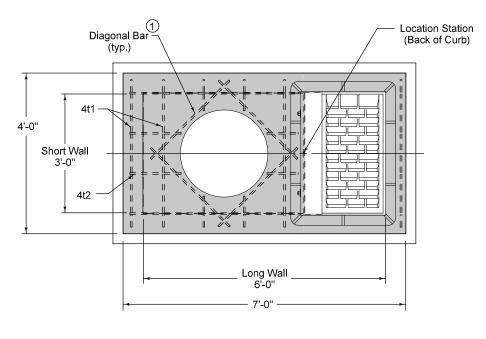


Install four #4 diagonal bars at manhole opening and at all pipe openings.



PLAN

| REINFORCING BAR LIST | | | | | | | | | |
|----------------------|------|-------------|-------|--------|----------------------|---------|--|--|--|
| Mark | Size | Location | Shape | Count | Length | Spacing | | | |
| 4t1 | 4 | Тор | | 12 | 3'-8" | 12" | | | |
| 4t2 | 4 | Тор | | 8 | 4'-2" | 12" | | | |
| 4b1 | 4 | Base | | 7 | 4'-2" | 13" | | | |
| 4b2 | 4 | Base | | 5 | 7'-2" | 10" | | | |
| 4w1 | 4 | Short Walls | | Varies | 3'-8" | 12" | | | |
| 4w2 | 4 | Long Walls | | Varies | 6'-8" | 12" | | | |
| 4w3 | 4 | Walls | | 18 | Wall Height minus 4" | 13" | | | |

| MAXIMUM PIPE DIAMETER: | | | | | | |
|------------------------|-----------|---------------|--|--|--|--|
| Pipe | Precast | Cast-in-place | | | | |
| Location | Structure | Structure | | | | |
| Short Wall | 24" | 30" | | | | |
| Long Wall | 30" | 36" | | | | |
| | | | | | | |

| | REVISION | | | | | | |
|--|--------------------|------|--------------|--|--|--|--|
| SUDAS | ⊘ IOWADOT | 2 | 04-17-18 | | | | |
| | | CIVI | -503 | | | | |
| FIGURE 6010.503 | STANDARD ROAD PLAN | 344 | -303 | | | | |
| | | | SHEET 2 of 2 | | | | |
| REVISIONS: Changed 'Invert' callout to 'Concrete Fillet'. Updated Inework and Iowa DOT and SUDAS logo. | | | | | | | |
| Paul D. Wigard Brian Smith | | | | | | | |
| SUDAS DIRECTOR DESIGN METHODS ENGINEER | | | | | | | |
| SINGLE GRATE INTAKE WITH MANHOLE | | | | | | | |