## NRCS Minimum Pipe Specifications

All pipes must meet or exceed NRCS specifications
Smooth PVC and Polyethylene (PE)

| Nominal Pipe Size <br> (inches) | Schedule (SCH) <br> Standard Dimension Ratio (SDR) <br> Standard Inside Dimension Ratio <br> (SIDR) <br> Dimension Ration (DR) | Maximum Depth of Fill <br> Over Pipe (Feet) | Specifications Pipe must <br> conform to |
| :---: | :---: | :---: | :---: |
| PVC 11/2, 2 | SDR 26 | 16 | PVC 1120 or PVC 1220 |
| Water supply Lines | SDR 21 |  |  |
|  | Schedule 40 or Schedule 80 | 23 | ASTM D 1785 or D 2241 |
| AWWA C900 or C905 |  |  |  |

Based on NEH Part 636, Structural Engineering, Chapter 52 with values of E' $=400 \mathrm{psi}, 5 \%$ deflection, a soil unit weight of 120 pcf, and a 16,000-pound wheel load for allowable deflection

## Corrugated PVC and PE pipe with smooth interior

| Nominal Pipe Size <br> (inches) | Pipe Type, Reference Specification, <br> $\&$ Ring stiffess Constant (RSC) <br> or Pipe Stiffess (PS) | Maximum Depth of Fill Over <br> Pipe (Feet) | Specifications Pipe must <br> conform to |
| :---: | :---: | :---: | :---: |
| 4 to 36 | Dual Wall PVC, PS $=46$ | 12 | ASTM F 949 |
| 4 to 12 | Dual Wall PE PS $=50$ | 12 | AASHTO M252 or M294 |
| $15,18,24$, or 30 | Dual Wall PE, PS $=28-42$ | 11 | AASHTO M252 or M294 |
| 36,42, or 48 | Dual Wall PE, PS $=18-22$ | 10 | AASHTO M252 or M294 |
| 18,24 , or 30 | Dual Wall PE, RSC $=40$ | 10 | ASTM F 894 |
| 36,42, or 48 | Dual Wall PE, RSC $=40$ | 9 | ASTM F 894 |

Based on NEH Part 636, Structural Engineering, Chapter 52 with values of $\mathrm{E}^{\prime}=400 \mathrm{psi}, 5 \%$ deflection, a soil unit weight of 120 pcf , and a 16,000-pound wheel load for allowable deflection
PE pipe is limited to applications with less than 25 feet of head ( 10.8 psi )

