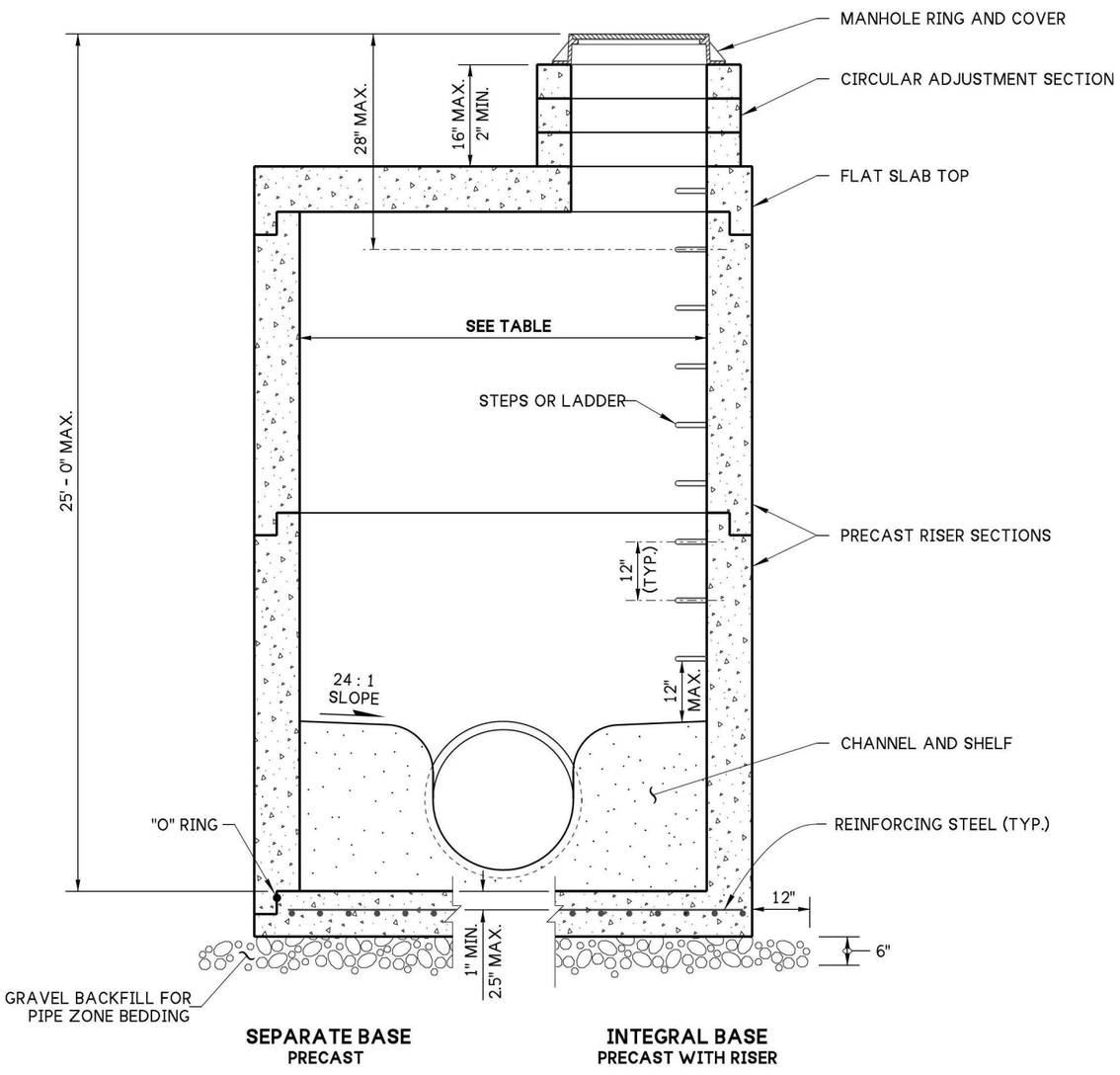
DRAWN BY: LISA CYFORD



NOTES

1. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum.
2. For pipe allowances, see **Standard Plan B-10.20**.
3. No steps are required when height is 4' (ft) or less.
4. The minimum distance between knockouts is measured from the inside wall of the structure.
5. Reinforcing steel shall meet the requirements of **ASTM C478**.

MANHOLE DIMENSION TABLE

DIAMETER	MINIMUM WALL THICKNESS	MINIMUM BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS (SEE NOTE 4)
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

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REGISTERED
PROFESSIONAL ENGINEER

Aug 22, 2026

MANHOLE TYPE 3

STANDARD PLAN B-15.60-03

SHEET 1 OF 1 SHEET

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STATE DESIGN ENGINEER

Washington State Department of Transportation