Install Phoenix P-1090 24" frame and cover (or approved equal). Set (N) frame and cover to finished grade. See R-50

Precast concrete grade rings

Install OSHA-approved polypropylene steps at 16" intervals on the outlet side of the manhole:

A. All steps within 24" barrel section shall protrude from the manhole wall by 4".

B. All steps in other manhole sections shall protrude from the manhole wall by 5".

C. Bottom step shall be placed between 8" and 24" above manhole base

Install two continuous beads of flexible sealant between all joints (Kent Seal, Ram-Nek, or approved equal), typical.

Roadway surface

12" wide x 12" thick circular concrete collar (3000 psi)

Cone section shall be rotated 90° from the centerline of the pipe.

Refer to trench detail for backfill requirements

Direction of Flow

Manhole base shall be 3,000 psi minimum.

6" min. Class 2 Aggregate Base (Min. 95% relative compaction)

SECTION

NOTES:

1. #10 copper tracer wire with green insulation shall be installed at all new manhole locations. Tracer wire shall be continuous from the (E) pipe, along the (N) pipe, and up to the manhole frame.

2. Larger diameter barrels may be required.