

**ROCK RIVER WATER RECLAMATION DISTRICT
SAMPLING/MONITORING MANHOLE INSTALLATION
APPLICATION**

Section I - General Information

Company Name: _____

Company Address: _____

Address of Proposed Sampling Manhole: _____

Owner/Contact Person: _____ Telephone #: _____

Plumber/Contractor: _____ Telephone #: _____

Date: _____

Section II - Manhole Detail Drawing (Contact the Engineering Permit Clerk for Requirements).

1. Indicate type of manhole:
 Sampling Manhole Monitoring Manhole
 Enhanced Monitoring Manhole Sewer Viewer (Variance Request Required)

2. Manhole Detail drawing attached: Yes No

Section III - Site Plan

1. New Existing Industrial/Commercial User

2. Site Plan Attached: Yes No

Section IV - Flow Meter Detail

1. Sanitary sewer size _____ inches

2. Sanitary sewer slope _____ percent

3. Expected flow volume:
Daily Max _____ GPM (GPD); Daily Avg. _____ GPM (GPD)

4. Primary device type and size:

- A. Palmer Bowlus Flume _____, size _____ inches
- B. Parshall Flume _____, size _____ inches
- C. Weir, type _____, size _____ inches
- D. Leopold - Lagco Flume _____, size _____ inches
- E. Other _____, size _____ inches

NOTE: Submit catalog sheets for primary device

5. Flow Meter Type:

- A. Float _____ Mfg _____
- B. Electrical _____ Mfg _____
- C. Ultrasonic _____ Mfg _____
- D. Bubbler _____ Mfg _____
- E. Submerged Pressure
Transducer _____ Mfg _____
- F. Other _____ Mfg _____

Section V - Installation

1. What is the estimated date of installation? _____

(For District Use Only)

Section VI - Comments/Requirements

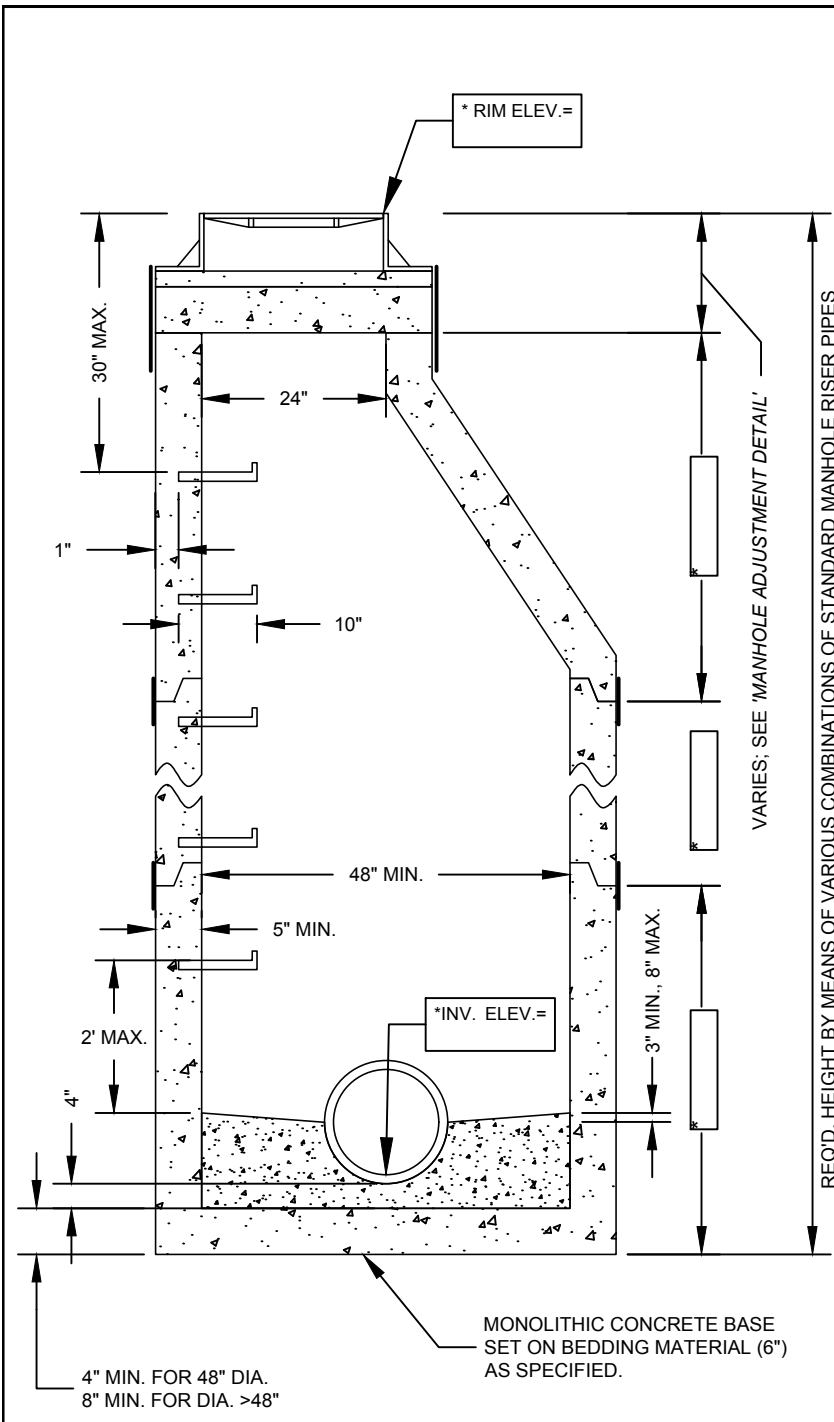
Rock River Water Reclamation District Staff Signatures:

I.W.S./Engineering: _____ *Date:* _____

Plant Ops: _____ *Date:* _____

Supporting Services: _____ *Date:* _____

Engineering Manager: _____ *Date:* _____



* INFORMATION TO BE COMPLETED BY PLUMBER

VARIES; SEE 'MANHOLE ADJUSTMENT DETAIL'
 REQ'D. HEIGHT BY MEANS OF VARIOUS COMBINATIONS OF STANDARD MANHOLE RISER PIPES AND ADJUSTMENT RINGS

- NOTES:**
1. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
 2. ALL BARREL JOINTS SHALL BE SEALED WITH $3\frac{1}{2}$ " x $\frac{3}{8}$ " BITUMINOUS MATERIAL ON THE LOWER SHIPLAP.
 3. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP OR EQ.)
 4. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
 5. MANHOLE FRAME & LID SHALL BE NEENAH R-1670 OR EAST JORDAN E-1117 WITH NON-ROCKING & SELF-SEALING LID. LID SHALL HAVE 2" HIGH "SANITARY" LETTERING & A CONCEALED PICK HOLE. GRADING SHALL BE SUCH THAT SURFACE RUNOFF WATER FLOWS AWAY FROM MANHOLE COVER.
 6. ALL ADJUSTMENT RING JOINTS SHALL BE SEALED WITH TWO 1" BEADS OF APPROVED BITUMINOUS MATERIAL, INCLUDING FRAME TO CONCRETE JOINT.
 7. 2" RINGS ALLOWED ONLY IN THE CITY OF ROCKFORD RIGHT-OF-WAY; ALL OTHER 2" RINGS SHALL BE RRWRD APPROVED RUBBER ADJUSTMENT RING.
 8. ONLY ONE 2" RING ALLOWED PER MANHOLE. MAXIMUM ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
 9. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
 10. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 11. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 12. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'.
 13. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".



SAMPLING MANHOLE DETAIL
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109
(815) 387-7660

(NOT TO SCALE)

rev. 5/15/18