PLAN AT C-C

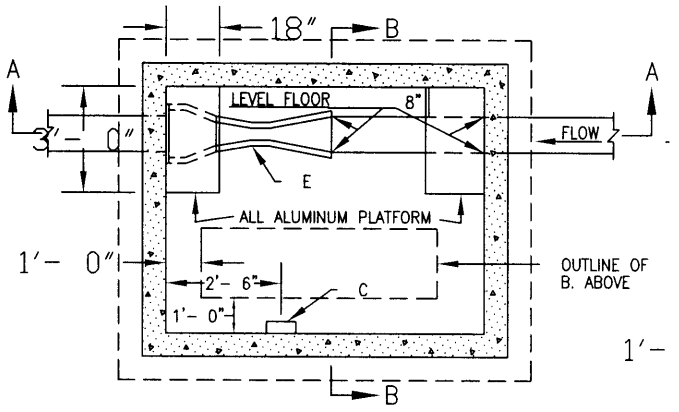
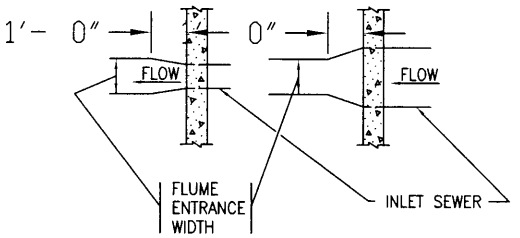


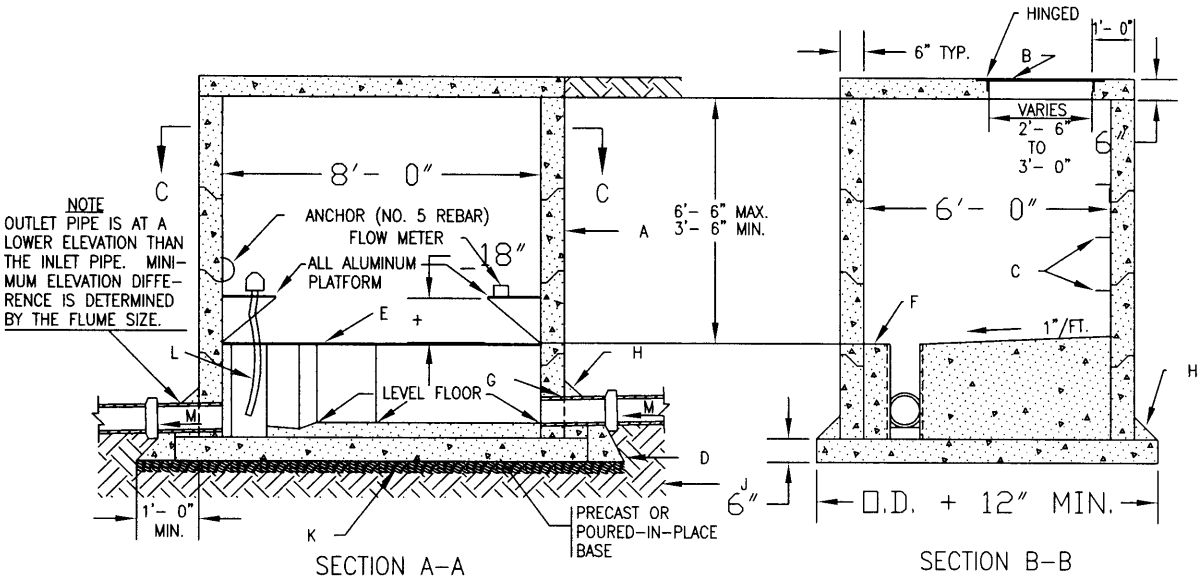
TABLE 1

Pipe Size	Required Inlet Slope
4 IN.	0.0060 FT/FT
6	0.0050
8	0.0040
10	0.0028
12	0.0022
15	0.0015
18	0.0012

NOTE

WHEN THE INLET SEWER IS SMALLER OR LARGER, IN DIAMETER THAN THE FLUME ENTRANCE WIDTH, A SMOOTH TRANSITION SHALL BE PROVIDED CHANGING FROM THE INLET SEWER DIAMETER TO THE FLUME ENTRANCE CHANNEL WIDTH OVER THE FIRST FOOT INSIDE THE MH.





SECTION A-A

SECTION B-B

GENERAL NOTES:

1. THIS DESIGN IS APPLICABLE FOR MANHOLES 6.5 FT. & LESS IN DEPTH MEASURED FROM FLOOR TO CONCRETE COVER. DEPTHS GREATER THAN 6.5 FT. WILL REQUIRE THE 8' DIA., ROUND MANHOLE PER DWG. 2151.
2. INDUSTRIAL MANHOLE SHALL BE LOCATED ON PRIVATE PROPERTY OUTSIDE OF OWNER RIGHT-OF-WAY. OWNER PERSONNEL SHALL HAVE ACCESS TO THE MANHOLE AT ALL TIMES OF THE DAY OR NIGHT.
3. NOT ALL INSTALLATIONS WILL REQUIRE THE ALUMINUM PLATFORMS. SAMPLER AND FLOW METERING APPARATUS TO BE PROVIDED BY THE INDUSTRIAL USER. FINAL DECISIONS RELATIVE TO THE REQUIREMENT FOR MONITORING EQUIPMENT AND THE SPECIFIC TYPE OF FLUME WILL BE MADE BY THE ENGINEER FOR EACH INDIVIDUAL CASE.
4. A PARSHALL FLUME OR PALMER BOWLUS FLUME SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THIS DETAIL. THE FLUME MUST BE SIZED TO ACCURATELY MEASURE ALL ANTICIPATED FLOW LEVELS. PRIOR TO INSTALLATION THE FLUME SIZE, AND TYPE MUST BE APPROVED BY THE ENGINEER.
5. IN ORDER TO CONTROL VELOCITIES AT A LEVEL THAT ALLOWS FOR ACCURATE FLOW MEASUREMENT, SLOPES ON THE INLET SEWER LINES FOR 20 FT. OUTSIDE THE MANHOLE MUST BE AS SPECIFIED IN TABLE 1 FOR THE VARIOUS SIZE LINES. OUTLET SEWER LINES MUST BE DESIGNED TO CONVEY THE MAXIMUM DESIGN FLOWS WITHOUT CREATING A SURCHARGED CONDITION IN THE FLUME.

CONSTRUCTION NOTES:

A. ALL MANHOLE BASES, RISERS SECTIONS AND FLAT SLAB TOP SECTIONS SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SPEC. SECTION 920.4.2.

B. FRAME & COVER FOR NON-TRAFFIC AREAS SHALL BE NEENAH R-6661-V1H OR EQ. FOR TRAFFIC OR PARKING AREAS, IT SHALL BE NEENAH R-6663-0H OR EQUAL.

C. MH STEPS PER SPEC SECTION 920.4.7.

D. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE THE MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO THE SPRING LINE.

E. PREFABRICATED MONITORING FLUME TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND SHALL BE MANUFACTURED BY MANNING, PLASTI-FAB OR APPROVED EQUAL. A PARSHALL FLUME OR A PALMER BOWLUS FLUME SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

F. CONCRETE FILLETS, USE 3000 PSI CONC. WITH TYPE II CEMENT. FILLETS TO MATCH TOP OF FLUME AND SLOPE ONE INCH PER FOOT.

G. MANHOLE PIPE CONNECTIONS TO BE PER ASTM C-923; STANDARD SPEC. FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES. RESILIENT CONNECTORS TO BE A-LOK OR APPROVED EQUAL.

H. 6 IN. GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.

J. 6" SUBGRADE AND BACKFILL COMPACTED TO 95% MODIFIED PROCTOR.

K. 2 IN. GRAVEL CRUSHED STONE LEVELING COURSE.

L. FLUME OUTLET END ADAPTER, PLASTI-FAB OR APPROVED EQUAL.

M. SLOPE PER TABLE 1.

NM APWA

REVISIONS

SEWER
SAMPLING & METERING MANHOLE
6' X 8' RECTANGULAR

DWG. 2150

FEB. 2006