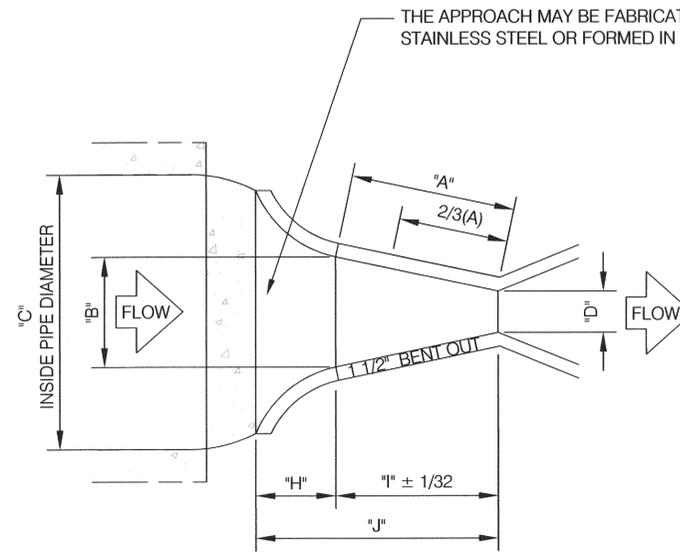


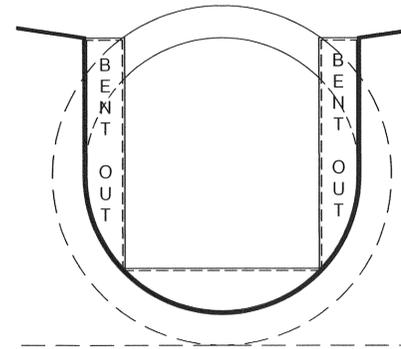
**MONTANA FLUME
INTERIOR PLAN**

NOTES: MONTANA FLUME DIMENSIONS, TOLERANCES, & REQUIREMENTS

1. QUALITY CONTROL DIVISION (QCD) MUST VERIFY THE DIMENSIONS AND TOLERANCES OF THE FLUME BEFORE INSTALLATION.
2. INDUSTRY SHALL PROVIDE ANTICIPATED MAXIMUM AND MINIMUM FLOW RATES IN GALLONS PER MINUTE (GPM) OR CUBIC FEET PER SECOND (CFS) TO QCD FOR SIZING PURPOSES.
3. QCD MUST INSPECT FORMS BEFORE POURING CONCRETE AND AFTER TO VERIFY PROPER INSTALLATION AND TO ENSURE TOLERANCE ARE WITHIN SPECIFICATION. CONTACT QCD: 444-3915 (EXT 135) TO ARRANGE INSPECTIONS.
4. ALL DIMENSIONS SHALL BE PROVIDED BY QCD.
5. FLUME SHALL BE FABRICATED FROM 10 GAUGE TYPE 304 STAINLESS STEEL.
6. FLUME MUST BE INSTALLED LEVEL AND PLUMB.
7. DISCHARGE OF FLUME MUST HAVE A FREE FALL OF _____ INCHES (SUPPLIED BY QCD) DEPENDENT ON FLUME SIZE.
8. APPROACH SECTION OF FLUME MAY BE FABRICATED OF STAINLESS STEEL OR FORMED IN CONCRETE.
9. TOLERANCES ON THROAT WIDTH (W) +/- 1/64TH OF AN INCH. ALL OTHER DIMENSIONS OF FLUME +/- 1/32ND OF AN INCH.
10. 2/3(A) MUST BE ETCHED INTO THE FLANGE OF THE FLUME AT THE EXACT DISTANCE.
11. THE UPSTREAM APPROACH PIPE TO THE SMH MUST BE STRAIGHT (NO TIE INS, BENDS OR TURNS). THE MINIMUM LENGTH OF THE APPROACH PIPE SHALL BE EQUAL TO OR GREATER THAN 25 TIMES THE DIAMETER OF THE PIPE.
12. THE UPSTREAM AND DOWNSTREAM PIPE MUST HAVE A UNIFORM SLOPE AND BE DESIGNED SO THE APPROACHING FLOW IS RELATIVELY FREE OF TURBULENCE. PROVIDE QCD WITH % SLOPE FOR APPROVAL.
13. ALL CONCRETE SHALL BE HIGH ALKALINITY, MINIMUM 50% CALCAREOUS AGGREGATE, CLASS L65M, TYPE II CEMENT.
14. IF THE FINAL QCD INSPECTION DETERMINES THE METERING DEVICE/PIPING DOES NOT MEET TOLERANCES OR SPECIFICATIONS THE INSTALLATION WILL BE REJECTED.

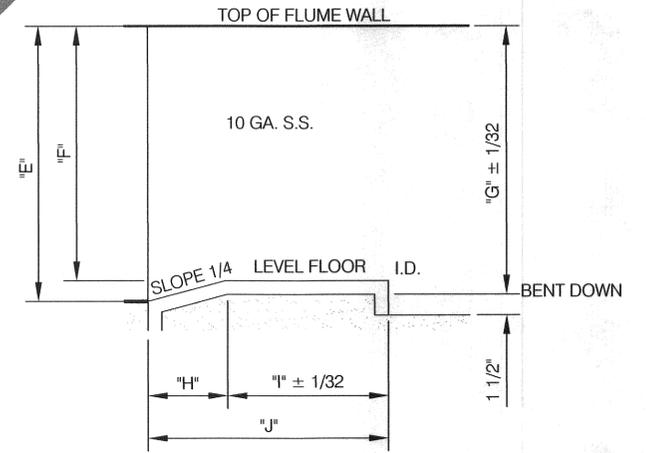


PLAN VIEW



FRONT VIEW

CALL QCD BEFORE PROCEEDING

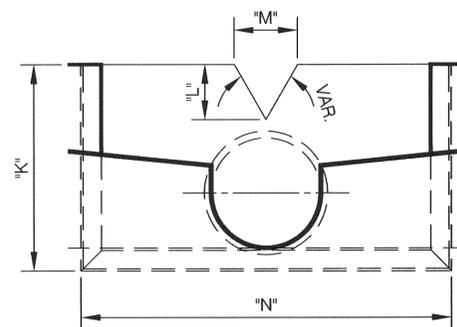


SIDE VIEW

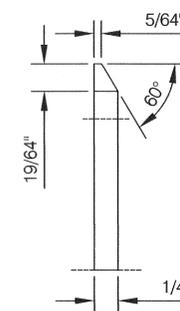
**V-NOTCH WEIR
INTERIOR PLAN**

NOTES: STANDARD V-NOTCH WEIR DIMENSIONS, TOLERANCES, & REQUIREMENTS

1. QUALITY CONTROL DIVISION (QCD) MUST VERIFY THE DIMENSIONS AND TOLERANCES OF THE GUIDES AND WEIR PLATE BEFORE INSTALLATION.
2. INDUSTRY SHALL PROVIDE ANTICIPATED MAXIMUM AND MINIMUM FLOW RATES IN GALLONS PER MINUTE (GPM) OR CUBIC FEET PER SECOND (CFS) TO QCD FOR SIZING PURPOSES.
3. QCD MUST INSPECT FORMS BEFORE POURING CONCRETE AND AFTER TO VERIFY PROPER INSTALLATION AND TO ENSURE TOLERANCE ARE WITHIN SPECIFICATION. CONTACT QCD: 444-3915 (EXT 135) TO ARRANGE INSPECTIONS.
4. ALL DIMENSIONS SHALL BE PROVIDED BY QCD.
5. WEIR GUIDES AND 1/4" WEIR PLATE MUST BE FABRICATED FROM 10 GAUGE TYPE 304 STAINLESS STEEL.
6. ALL DIMENSIONS OF V-NOTCH + OR - 1/64TH INCH.
7. ALL WEIR PLATE SURFACES MUST BE MILLED, LEVEL, AND PLUMB.
8. ENTIRE V-NOTCH MUST HAVE A 60 DEGREE DOWNSTREAM CHAMFERED EDGE.
9. V-NOTCH MUST COME TO A SHARP DEFINED POINT.
10. WEIR PLATE MUST REST IN WEIR GUIDES LEVEL AND PLUMB.
11. THE UPSTREAM APPROACH PIPE TO THE SMH MUST BE STRAIGHT (NO TIE INS, BENDS OR TURNS). THE MINIMUM LENGTH OF THE APPROACH PIPE SHALL BE EQUAL TO OR GREATER THAN 25 TIMES THE DIAMETER OF THE PIPE.
12. THE UPSTREAM AND DOWNSTREAM PIPE MUST HAVE A UNIFORM SLOPE AND BE DESIGNED SO THE APPROACHING FLOW IS RELATIVELY FREE OF TURBULENCE. PROVIDE QCD WITH % SLOPE FOR APPROVAL. ALL CONCRETE SHALL BE HIGH ALKALINITY, MINIMUM 50% CALCAREOUS AGGREGATE, CLASS L65M, TYPE II CEMENT.
13. IF THE FINAL QCD INSPECTION DETERMINES THE METERING DEVICE/PIPING DOES NOT MEET TOLERANCES OR SPECIFICATIONS THE INSTALLATION WILL BE REJECTED.



FRONT VIEW



SIDE PLATE VIEW

CALL QCD BEFORE PROCEEDING

		CITY OF OMAHA PUBLIC WORKS DEPARTMENT	
		SAMPLING MANHOLE	
1	REVISION 02/11/2011	MONTANA FLUME & WEIR TYPE DETAILS	
		STANDARD PLATE 3-18	
		ISSUE DATE: MARCH 26, 2003	