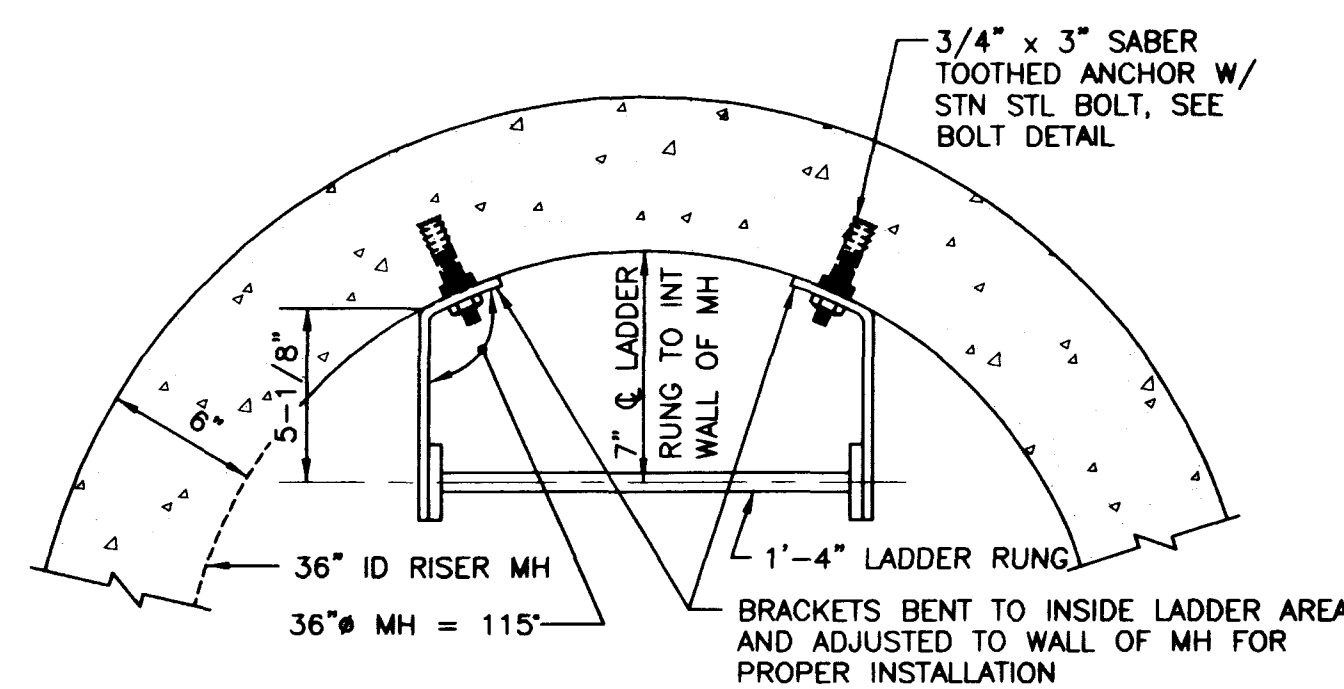


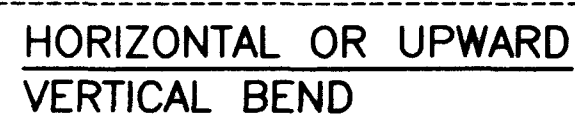


BRACKET SPACING TABLE	
BRACKET SPACING	FLAT BAR SIZE
5'-0" TO OC MAX	2" x 3/8"
OVER 20-0"	4" x 1/2"

1. APPROVAL OF THE ENGINEER REQUIRED FOR ANY BRACKET SPACING OVER 5'-0" OC (SEE BRACKET SPACING TABLE FOR BAR SIZE).
2. LADDER SHALL BE MADE OF GALVANIZED CARBON STEEL WITH 3/4"Ø SMOOTH BAR RUNGS PLUG WELD TO RUNNERS.



1



COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH DIVISION 15 OF THE LVVWD SPECS, PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED IN UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED TO LVVWD FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

	BEARING AREA IN SQ FT					CONC/CU YDS	
PIPE ID	FIGURE	FIGURE	FIGURE 3, Δ			FIGURE 4, Δ	
	1	2	90°	45°	22 $\frac{1}{2}$ °	45°	22 $\frac{1}{2}$ °
4"	1	2	3	1	1	1.0	0.5
6"	2	4	5	3	1	1.5	1.0
8"	3	7	10	5	2	3.0	1.5
12"	7	14	20	11	4	5.2	3.0

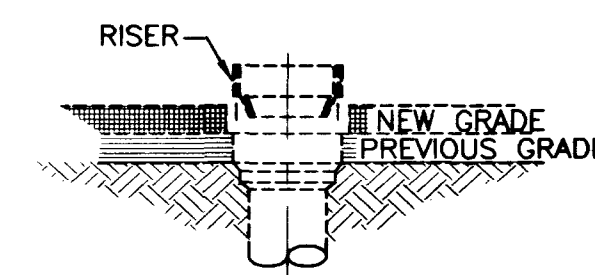
2



3



VALVE BOX INSTALLATION AND ADJUSTMENT



VALVE BOX INSTALLATION AND ADJUSTMENT

