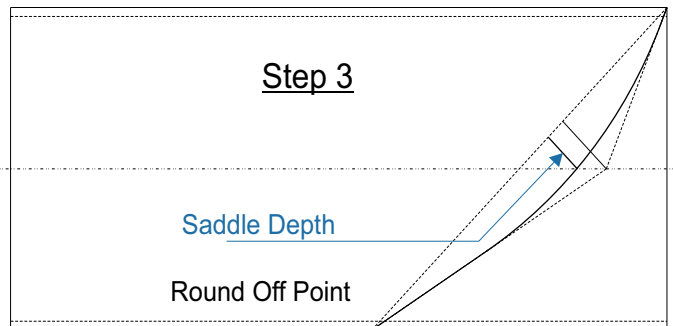
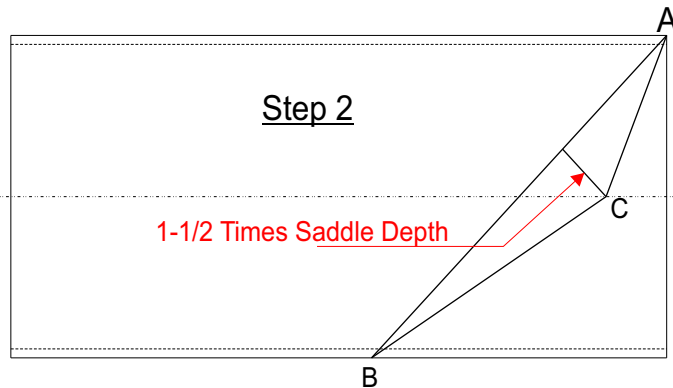
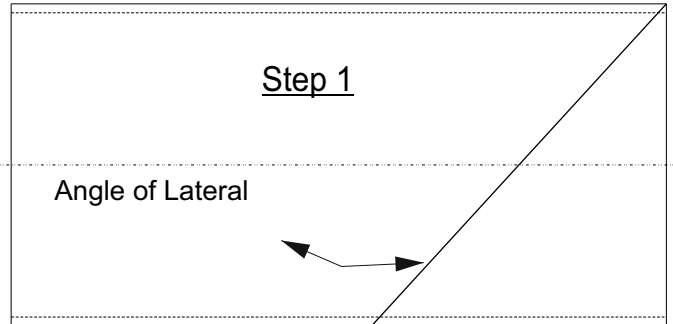


To layout a Lateral at an angle (Fig. A),

Set the Miter Marker to the angle of the lateral and mark a line around the pipe as shown in step 1. At a right angle to this line, scribe a line equal to 1-1/2 times the saddle depth. This point must be on the pipe centerline as shown in step 2. Mark the lines A-C and B-C. Lay off the saddle depth and round off the point as shown in step 3.

To mark the opening in the larger pipe use our Multi-Hole Imager P/N MHI515

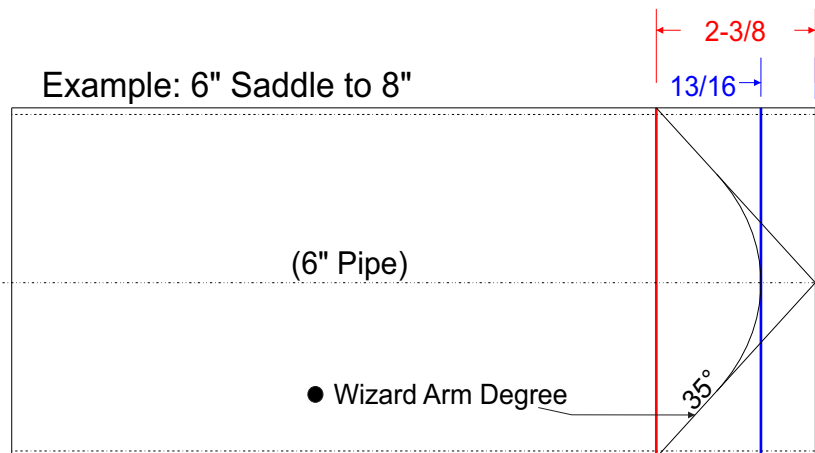


LATERAL PIPE SIZE (Small Pipe)

	2-3/8	3-1/2	4-1/2	6-5/8	8-5/8	10-3/4	12-3/4	14	16	18	20	24	
MAIN TRUNK LINE (Large Pipe)	2-3/8	45° 1-3/16 3/8											
	3-1/2	35° 3/4	45° 1-3/4										
	4-1/2	30° 9/16	35° 7/16	45° 3/4									
	6-5/8	20° 3/8	30° 1/4	30° 7/16	45° 1-1/8								
	8-5/8	15° 5/16	20° 9/16	25° 15/16	35° 2-3/8	45° 4-5/16							
	10-3/4	10° 1/4	15° 15/32	20° 3/4	28° 1-3/4	38° 3-5/16	45° 5-3/8						
	12-3/4	5° 3/16	10° 1/8	15° 1/4	25° 1/2	30° 7/8	40° 1-1/2	45° 2-1/8					
	14		10° 3/8	10° 1/8	22° 3/16	28° 7/16	35° 3/4	42° 1-1/4	45° 2-1/16	2-3/8			
	16			10° 1/2	20° 1-1/8	22.5° 1-7/8	30° 3-1/16	35° 4-13/16	40° 6-3/16	45° 8	2-11/16		
	18			10° 3/16	17° 5/16	22° 9/16	27.5° 15/16	30° 3-5/16	35° 1-11/16	42.5° 2-7/16	45° 3		
	20			8° 1/8	13° 5/16	18° 1/2	25° 15/16	28° 1-3/16	30° 1-7/16	38° 2	42.5° 2-13/16	45° 3-3/8	
	24			8° 3/8	12° 3/4	15° 1-1/4	20° 2	22.5° 2-13/16	25° 3-3/8	30° 4-5/8	30° 6-1/8	40° 8-1/16	45° 12

(Note: All figures rounded to the nearest 1/32")

- Wizard Arm Degree
- Saddle Depth x 1.5
- Tip Round Off



Example shown:

$2-3/8" - 13/16" = 1-9/16"$ Actual Saddle Depth