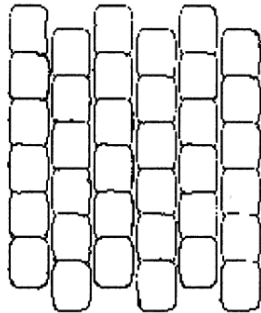
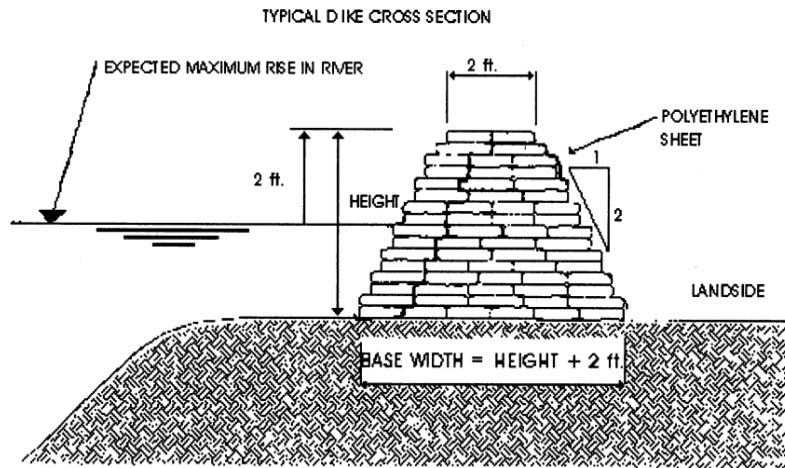


Building a Dike

RECOMMENDED PROCEDURES FOR SAND BAG DIKE CONSTRUCTION



PLAN OF LAYER

HEIGHT	BASE WIDTH
1.0	3.0
2.0	4.0
3.0	5.0
4.0	6.0

ALL DIMENSIONS IN FEET



METHOD OF LAPPING SANDBAGS

Lower Trent Conservation Flood Contingency Plan - 2017

Sand Bag Dike Instructions

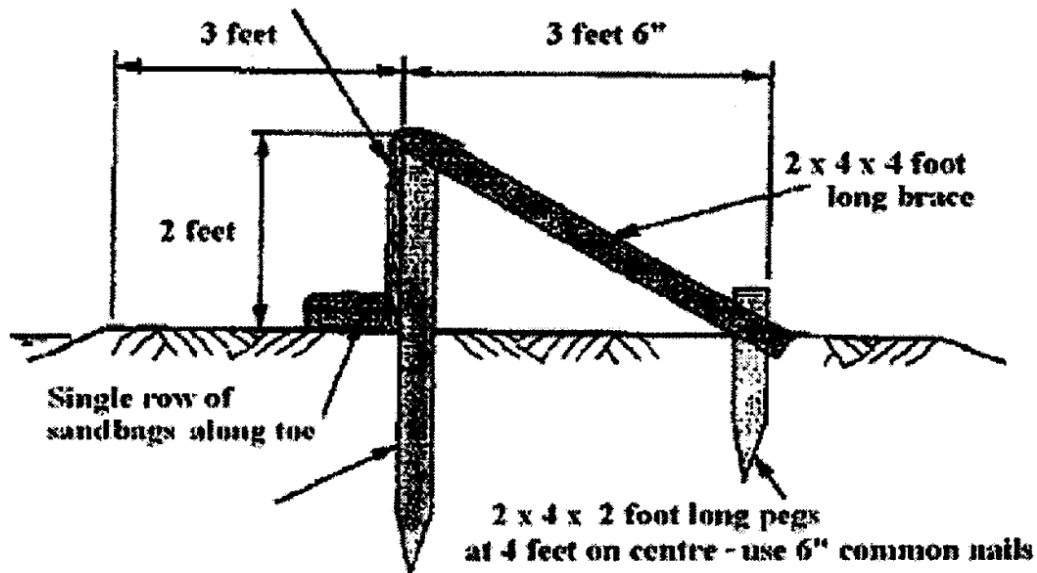
1. Base area of Sand Bag Dike should be clear of snow and ice
2. Leave at least 8 feet between dike and building
3. Base of dike should be at least 2 feet wider than expected height
4. Every second layer of bags should be setback 1/4 of a bag width both on the river side and the land side of the dike giving a step like appearance. The top of the finished dike should be two feet wide
5. The bottom layer of bags on the river side will run parallel with the river.
6. It is recommended that 6 mil polyethylene sheets in 10 foot wide rolls be used as a water proofing layer on the river side of the dike. The poly sheet should be placed loosely against the sand bag dike during construction with a protective layer of sand bags placed on the river side as indicated in the figure.
7. Have extra sand bags on hand to strengthen any weak spots in the dike.
8. If untied bags are used, the top, or unfilled portion of the bag, should be stretched lengthwise and the next bag laid on top of it. This method is known as lapping as indicated in the figure. It is not necessary to tie sacks. Untied Bags should be filled to half full.

Height of dike	Number of Sandbags Required for the following Lengths of dike (Length in Feet)								
	50	100	150	200	250	300	350	400	450
0.0	0	0	0	0	0	0	0	0	0
0.5	210	430	640	850	1070	1280	1500	1710	1920
1.0	470	950	1420	1900	2370	2850	3320	3800	4270
1.5	780	1570	2350	3130	3920	4700	5480	6270	7050
2.0	1100	2300	3400	4600	5700	6800	8000	9100	10300
2.5	1500	3100	4600	6200	7700	9300	10800	12300	13900
3.0	2000	4000	6000	8000	10000	12000	14000	16000	17900
3.5	2500	5000	7500	10000	12500	15000	17500	19900	22400
4.0	3000	6100	9100	12200	15200	18200	21300	24300	27400
4.5	3600	7300	10900	14500	18200	21800	25400	29100	32700
5.0	4300	8500	12800	17100	21400	25600	29900	34200	38500
5.5	5000	9900	14900	19800	24800	29800	34700	39700	44700
6.0	5700	11400	17100	22800	28500	34200	39900	45600	51300

Guidelines for Flash Board Construction

Details of Flash Board

Cut poly sheet 4 feet wide
4 - 1 x 6" x 8 foot long boards or
24 x 96" plywood 1/2 inch
[with boards - stagger and lap at posts]
use 2 1/2 inch nails



Material for 131 feet of flashboard

- 38 - 2 X 4 X 6 feet long posts
- 38 - 2 X 4 X 6 feet long braces
- 38 - 2 X 4 X 6 feet long pegs
- 76 - 1 X 6" X 8 foot long boards
- 22 - 24" X 96" plywood 1/2" thick
- 40 feet 12 foot wide poly sheet min. 6 mil
- 140 sand bags 2 1/2 and 6 inch common nails