



ARTICLE 36: Flood Plain Conservancy Dist.

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Mr. Kleiman moves:

That the Town take affirmative action on Article 36 as printed in the Warrant.

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- Federal Emergency Management Agency issued Letter of Map Revision (LOMR) for a portion of Concord River, Mill Brook 2 and Sawmill Brook 2 on February 9, 2018.
- This LOMR reduced the 100-year flood plain elevation on the Flood Insurance Rate Map (FIRM) in certain location between half a foot to 2 feet.

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mill Brook 2								
A	1,290 ¹	14	17	6.3	120.2	112.8 ³	112.8	0.0
B	1,496 ¹	100	270	0.4	120.3	118.3 ³	118.3	0.0
C	1,786 ¹	140	819	0.1	120.3	118.4 ⁴	118.4	0.0
D	3,006 ¹	25	54	10.5	120.3	119.7 ⁴	119.9	0.2
E	3,500 ¹	30	234	2.4	127.2	127.2	127.7	0.5
F	3,960 ¹	40	283	2.0	127.3	127.3	128.0	0.7
G	4,360 ¹	40	288	2.0	127.3	127.3	128.1	0.8
H	5,500 ¹	120	948	0.6	127.6	127.6	128.5	0.9
I	8,100 ¹	120	1,047	0.2	127.6	127.6	128.5	1.0
J	8,350 ¹	200	1,744	0.1	127.6	127.6	128.6	1.0
K	9,665 ¹	200	1,086	0.2	127.6	127.6	128.6	1.0
L	13,240 ¹	200	921	0.2	127.6	127.6	128.6	1.0
M	14,375 ¹	100	165	0.7	129.1	129.1	129.1	0.0
N	14,740 ¹	400	1,274	0.1	132.4	132.4	132.4	0.0
Mill Brook 3								
A	30 ²	78	374	1.4	7.2	0.6 ⁵	0.6	0.0
B	890 ²	44	227	2.1	7.3	6.8 ⁵	6.8	0.0
C	930 ²	48	375	1.3	7.3	6.9 ⁵	7.0	0.1
D	2,000 ²	37	128	5.3	7.4	6.2 ⁵	6.2	0.0
E	3,090 ²	63	115	5.5	10.8	10.9	10.9	0.1
F	3,550 ²	39	111	5.0	17.3	17.3	17.6	0.3
G	4,930 ²	23	86	5.8	33.2	33.2	33.4	0.2
H	5,390 ²	29	67	7.4	38.0	38.0	38.0	0.0
I	5,610 ²	113	197	2.3	42.3	42.3	42.4	0.1
J	6,670 ²	26	180	2.6	50.6	50.6	50.7	0.1

¹ Feet above confluence with Concord River
² Feet above confluence with Lower Mystic Lake
³ Elevation computed without consideration of backwater effects from Concord River
⁴ Elevation computed without consideration of flooding controlled by Sudbury River
⁵ Elevation computed without consideration of backwater effects from Lower Mystic Lake
 The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

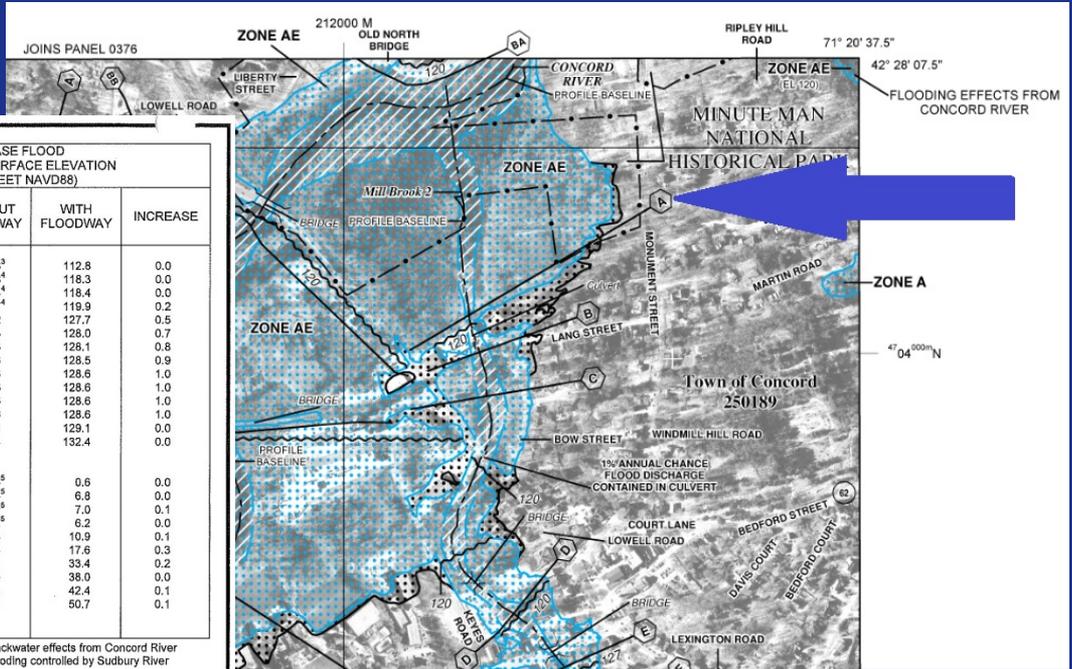


TABLE 12	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	
	MILL BROOK 2 – MILL BROOK 3	

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mill Brook 2					119.7			
A	1,290 ¹	14	17	6.3	119.7	112.8 ³	112.8	0.0
B	1,496 ¹	100	270	0.4	119.7	118.3 ³	118.3	0.0
C	1,786 ¹	140	819	0.1	119.7	120.3	118.4 ⁴	118.4
D	3,006 ¹	25	54	10.5	119.7	120.3	119.7 ⁴	119.9
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M	14,375 ¹	100	165	0.7	119.7	129.1	129.1	0.0
N	14,740 ¹	400	1,274	0.1	119.7	132.4	132.4	0.0
Mill Brook 3					REVISED DATA			
A	30 ²	78 ²	374	1.4	7.2	0.6 ⁵	0.6	0.0
B	890 ²	44	227	2.1	7.3	6.8 ⁵	6.8	0.0
C	930 ²	48	375	1.3	7.3	6.9 ⁵	7.0	0.1
D	2,000 ²	37 ²	126	5.3	7.4	6.2 ⁵	6.2	0.0
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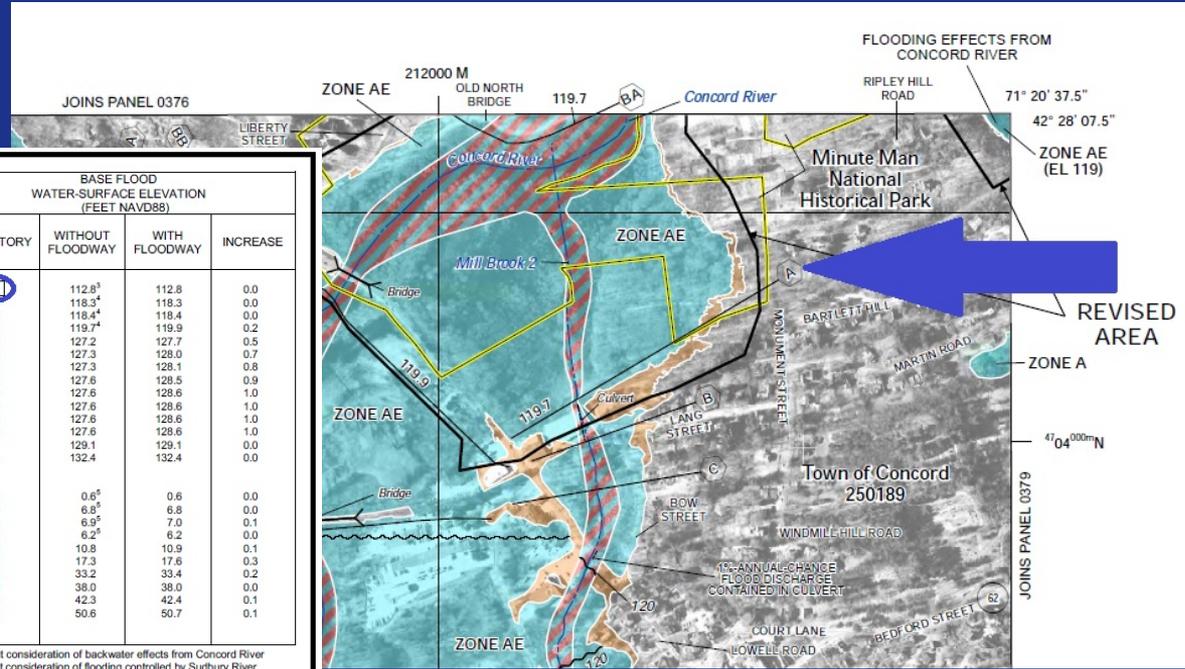


TABLE 12	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA <small>REVISED TO REFLECT LOMR EFFECTIVE: February 9, 2018</small>
	MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	MILL BROOK 2 – MILL BROOK 3

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Implications of adopting change for homeowners/property owners:

- Town compliance means homeowners can continue to obtain federal flood insurance.
- With a lower 100-year flood plain, property owners may need less flood insurance or possibly not even need it.

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Why is this amendment necessary?

- National Flood Insurance Program requires maintaining an accurate Flood Plain Conservancy District boundary.
- Flood Plain Conservancy District boundary is a zoning overlay; requires a two-thirds vote of Town Meeting to change.
- This warrant article will update the FIRM map reference.



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