

Number	Primary River Crossings	River Mile	Base Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Base Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes		
SUNNY DAY - NON FAILURE											
1	MA03351 Danielson Pond Dam	0.0	1.0	N/A	N/A	145.8	146.9	1.1	Dam >2 ft from Overtopping Under Normal Conditions.		
2	Homestead Drive	0.0	1.0	N/A	N/A	138.1	150.4	12.3			
3	South Street	0.2	1.0	N/A	N/A	127.9	133.7	5.8			
6	Causeway Street	3.3	36.5	N/A	N/A	113.7	118.5	4.8			
7	Charles River (DS Limit)	4.6	36.5	N/A	N/A	113.4	113.4	0.0			
Number	Primary River Crossings	River Mile	Peak Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Peak Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes	Conclusion	Action
SUNNY DAY - FAILURE											
1	MA03351 Danielson Pond Dam	0.0	440	0:00	0:08	145.8	146.9	1.1	Dam Fails		
2	Homestead Drive	0.0	140	0:03	0:10	145.4	150.4	5.0			
3	South Street	0.2	100	0:11	1:48	132.6	133.7	1.1	Road >2 ft from overtopping	Road Failure Possible	Close/Monitor Road
6	Causeway Street	3.3	50	4:56	10:04	114.4	118.5	4.1			
7	Charles River (DS Limit)	4.6	50	5:17	10:25	114.1	113.4	-0.7	Charles River Rises 0.7 ft at Confluence with Stop River		


Number	Primary River Crossings	River Mile	Peak Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Peak Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes	Conclusion	Action
Wet Weather - NON FAILURE											
1	MA03351 Danielson Pond Dam	0.0	270	N/A	N/A	147.6	146.9	-0.7	Dam Overtops	Dam Failure Likely	Monitor/Restore Dam
2	Homestead Drive	0.0	200	N/A	N/A	147.4	150.4	3.0			
3	South Street	0.2	170	N/A	N/A	134.1	133.7	-0.4	Road Overtops	Road Failure Likely	Close/Monitor Road
6	Causeway Street	3.3	865	N/A	N/A	116.6	118.5	1.9	Road >2 ft. from Overtopping	Road Failure Possible	Close/Monitor Road
7	Charles River (DS Limit)	4.6	865	N/A	N/A	115.2	113.4	-1.8	Charles River Rises 1.8 ft. at Confluence with Stop River.		
Number	Primary River Crossings	River Mile	Peak Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Peak Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes	Conclusion	Action
Wet Weather - FAILURE											
1	MA03351 Danielson Pond Dam	0.0	550	0:00	0:28	147.6	146.9	-0.7	Dam Overtops	Dam Fails	Monitor/Restore Dam
2	Homestead Drive	0.0	260	0:02	0:33	147.6	150.4	2.8			
3	South Street	0.2	180	0:25	1:25	134.2	133.7	-0.5	Road Overtops	Road Failure Likely	Close/Monitor Road
6	Causeway Street	3.3	865	N/A	N/A	116.6	118.5	1.9	Effects of Dam Failure Negligible at this Location		
7	Charles River (DS Limit)	4.6	865	N/A	N/A	115.2	113.4	-1.8	Effects of Dam Failure Negligible at this Location		

LEGEND	
	SUNNY DAY FAILURE (SDF) INUNDATION AREA
	WET WEATHER FAILURE (WWF) INUNDATION AREA
	WET WEATHER NON-FAILURE (WWNF) INUNDATION AREA
	STRUCTURE SUBJECT TO FLOODING DURING WWF (1 EA)
	PORTION OF ROAD SUBJECT TO FLOODING DURING SDF (0 LF)
	ADDITIONAL PORTION OF ROAD SUBJECT TO FLOODING DURING WWF (572 LF)

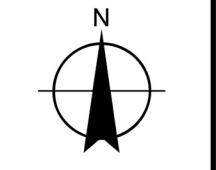
NOTES:	
1.	LIMITS OF INUNDATION ARE BASED UPON THE MODEL CONDITIONS DISCUSSED WITHIN SECTION 4 OF THE EAP. VARIATIONS FROM ASSUMED MODELING CONDITIONS MAY EXIST.
2.	AERIAL IMAGERY AND CONTOUR DATA FROM THE COMMONWEALTH OF MASSACHUSETTS BUREAU OF GEOGRAPHIC INFORMATION (MASSGIS).
3.	ELEVATIONS APPROXIMATELY REFERENCE THE NAVD88 DATUM.


4. MA01154 KINGSBURY POND DAM
TOP OF DAM: EL. 139.6
NORMAL POOL: EL. 136.7
WET WEATHER POOL: EL. 138.5

1. MA03351 DANIELSON MILL DAM
TOP OF DAM: EL. 147
NORMAL POOL: EL. 146
WET WEATHER POOL: EL. 147.6



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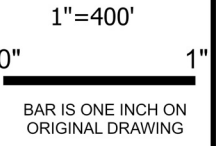


MA03351 DANIELSON MILL DAM

MEDFIELD, MA

EMERGENCY ACTION PLAN

TOWN OF MEDFIELD



PROJECT NO.:	19126.01
DATE:	OCTOBER 2020
SCALE:	AS NOTED
DRAWN BY:	SJP
APPROVED BY:	AO
DESIGNED BY:	AC

DANIELSON

MILL DAM

INUNDATION

MAP