

Summary of Observations

Table 1
Franklin, Ma
Summary of Observations
Made During Structural Inspection

			General Observations						Manhole Structural Condition and Observations				
Manhole Number	Location	Grade	Drainage					Observation	Manhole Components				
			Cover Description		Area	Steps	Surcharge		Corbel	Walls	Floor	Invert	
1	Cottage Street S.C. Rossi Automotive	AT	2	1	Pick Hole(s)	8.1	1	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	PRECAST 1	BRICK/PARGED 1	BRICK 1
						VINYL	Surcharge						
						COATED	Evident						
INSPECTED FROM SURFACE													
								Drainage MH:	<input type="checkbox"/>				
								Weather:	CLEAR				
1A	Cottage Street S.C. Rossi Automotive	AT	2	1	Pick Hole(s)	8.1	2	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	BRICK/PARGED 1	BRICK 2 Holding 4" of debris
						STEEL	Surcharge						
						Corroded	Evident						
								Drainage MH:	<input type="checkbox"/>				
								Weather:	CLEAR				
2	Cottage Street at Union Street	AT	--	--	Pick Hole(s)	8.1	2	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	BRICK/PARGED 1	BRICK 1
						STEEL	Surcharge						
						Corroded	Evident						
						Cracked pavement surrounding frame							
								Drainage MH:	<input type="checkbox"/>				
								Weather:	CLEAR				
3	Cottage Street Front of Aubuchon Hardware	BELOW 2.5	--	--	Pick Hole(s)	45.0	2	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	BRICK/PARGED 1	BRICK 1
						STEEL	Surcharge						
						Corroded	Evident						
INSPECTED FROM SURFACE													
								Drainage MH:	<input type="checkbox"/>				
								Weather:	CLEAR				

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		Grade	Cover Description		Drainage Area	Steps	Surcharge	Observation	Corbel	Walls	Floor	Invert
4	Cottage Street at Saxon Street	BELOW 3	-- --	Pick Hole(s)	45.0	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 2 Missing mortar, loose pieces	BRICK/PARGED 2 Very light mineral deposits	BRICK/PARGED 1	BRICK 1
			-- --	Lift Hole(s)		STEEL						
			-- --	Other Hole(s)		Corroded						
				Cracked pavement surrounding frame								
						Drainage MH: <input type="checkbox"/>						
						Weather: CLEAR						
5	Saxon Street	AT	2 --	Pick Hole(s)	8.1	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BLOCK 1	BRICK 1	BRICK 1	BRICK 1
			-- --	Lift Hole(s)		STEEL						
			-- --	Other Hole(s)		Corroded						
				Cracked pavement surrounding frame								
						Drainage MH: <input type="checkbox"/>						
						Weather: CLEAR						
6	Saxon Street Easement In front of Franklin Paint	AT	-- --	Pick Hole(s)	8.1	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	PARGED/BRICK 1	BRICK 1
			-- --	Lift Hole(s)		STEEL						
			-- --	Other Hole(s)		Corroded						
						Drainage MH: <input type="checkbox"/>						
						Weather: CLEAR						
7	Saxon Street Easement In rear of Franklin Paint	AT	2 --	Pick Hole(s)	8.1	3	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	BRICK 1	BRICK 1
			-- --	Lift Hole(s)		STEEL/BRICK						
			-- --	Other Hole(s)		Corroded						
						Drainage MH: <input type="checkbox"/>						
						Weather: CLEAR						

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					Area	Steps			Corbel	Walls	Floor	Invert
8	Cottage Street R.O.W.	AT	-- --	Pick Hole(s)	3.6	2	No Current	MATERIAL	BRICK	BRICK	BRICK/PIP	BRICK
			-- --	Lift Hole(s)		STEEL	Surcharge	CONDITION	2	2	2	1
			-- --	Other Hole(s)			Evident	LEAKS (gpd)				
INSPECTED FROM SURFACE								PHOTO	Missing mortar	Wet to 2', mineral deposits	Mineral deposits	
								DEFECTS				
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
9	Fisher Street Easement	AT	-- --	Pick Hole(s)	2.7	0	No Current	MATERIAL	BRICK	BRICK	BRICK/PARGED	BRICK
			-- --	Lift Hole(s)		NONE	Surcharge	CONDITION	1	1	1	1
			-- --	Other Hole(s)			Evident	LEAKS (gpd)				
INSPECTED FROM SURFACE								PHOTO				
								DEFECTS				
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
10	Cottage Street R.O.W.	AT	2 1	Pick Hole(s)	3.6	0	No Current	MATERIAL	BLOCK	BRICK	BRICK	BRICK/PIP
			-- --	Lift Hole(s)		NONE	Surcharge	CONDITION	1	2	2	2
			-- --	Other Hole(s)			Evident	LEAKS (gpd)				
INSPECTED FROM SURFACE								PHOTO		Roots, mineral deposits	Loose pieces, roots	Loose pieces
								DEFECTS				
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
11	Fisher Street at Sugarbeet Road	BELOW 0.5	2 1	Pick Hole(s)	6.3	2	No Current	MATERIAL	BRICK	BRICK	BRICK	BRICK
			-- --	Lift Hole(s)		STEEL	Surcharge	CONDITION	1	3	1	2
			-- --	Other Hole(s)			Evident	LEAKS (gpd)				
INSPECTED FROM SURFACE								PHOTO		Mineral deposits, roots, wet to 3'		Missing mortar
								DEFECTS				
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												

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Manhole Number	Location	Grade	Cover Description		Drainage		Observation	Manhole Components			
					Area	Steps		Corbel	Walls	Floor	Invert
12	131 Fisher Street	ABOVE 0.1	-- --	Pick Hole(s)	3.6	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 1	BRICK/PARGED 2 Wet to 3', mineral deposits	BRICK/PARGED 1 BRICK 1
INSPECTED FROM SURFACE							Corroded				
					Drainage MH: <input type="checkbox"/>		Weather: CLEAR				
13	129 Fisher Street	AT	-- --	Pick Hole(s)	3.6	3	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 2	BRICK/PARGED 2 Mineral deposits	BRICK/PARGED 2 Mineral deposits 1
INSPECTED FROM SURFACE							Corroded	Loose pieces			
					Drainage MH: <input type="checkbox"/>		Weather: CLEAR				
14	121 Fisher Street	ABOVE 0.1	-- --	Pick Hole(s)	3.6	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 1	BRICK/PARGED 2 Mineral deposits	PARGED 1 BRICK 1
INSPECTED FROM SURFACE							Corroded				
					Drainage MH: <input type="checkbox"/>		Weather: CLEAR				
15	Hayward Street at Fisher Street	ABOVE 0.25	-- --	Pick Hole(s)	3.6	2	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 1	BRICK/PARGED 2 Mineral deposits, missing pieces	BRICK 1 BRICK 1
INSPECTED FROM SURFACE							Corroded				
					Drainage MH: <input type="checkbox"/>		Weather: CLEAR				

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Manhole Number	Location	General Observations						Manhole Structural Condition and Observations				
		Grade	Cover Description	Drainage			Surcharge	Observation	Manhole Components			
				Area	Steps				Corbel	Walls	Floor	Invert
16	14 Hayward Street	AT	-- -- Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	3.6	2	No Current STEEL Surcharge Evident Corroded		MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK/PARGED 1	BRICK/PARGED 1	BRICK 1
INSPECTED FROM SURFACE						Drainage MH: <input type="checkbox"/> Weather: CLEAR						
17	24 Hayward Street	AT	-- -- Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	8.1	2	No Current STEEL Surcharge Evident Corroded		MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PARGED 1	PARGED 3 72 Missing mortar, wet with mineral deposits to 3' above floor	BRICK 2 Missing mortar	BRICK 1
INSPECTED FROM SURFACE						Drainage MH: <input type="checkbox"/> Weather: CLEAR						
18	42 Hayward Street	AT	-- -- Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	5.4	2	No Current CAST Surcharge Evident Corroded		MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 1	BRICK/PARGED 3 Wet to 2.5' above floor	BRICK/PARGED 1	BRICK 1
INSPECTED FROM SURFACE						Drainage MH: <input type="checkbox"/> Weather: CLEAR						
19	42 Hayward Street	AT	-- -- Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	3.6	2	No Current CAST Surcharge Evident Corroded Marks to 5.0 Ft		MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PARGED 2 Missing mortar, missing pieces	BRICK/PARGED 2 Missing pieces	BRICK/PIP 1	BRICK 1
INSPECTED FROM SURFACE						Drainage MH: <input type="checkbox"/> Weather: CLEAR						

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Manhole Number	Location	General Observations						Manhole Structural Condition and Observations				
		Grade	Cover Description			Drainage		Observation	Manhole Components			
									Corbel	Walls	Floor	Invert
20	31 Hayward Street	ABOVE 0.2	-- --	Pick Hole(s)	3.6	2	No Current CAST Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 1	BRICK 1	PIP 1	BRICK 1
INSPECTED FROM SURFACE												
Corroded												
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
21	31 Hayward Street (lawn)	BELOW 2	2 --	0.5 Pick Hole(s)	11.1	3	No Current STEEL Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/BLOCK 1	BRICK 2	BRICK/PARGED 1	BRICK 1
INSPECTED FROM SURFACE												
Corroded												
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
22	Hayward Street R.O.W.	ABOVE 6	2 --	1 Pick Hole(s)	3.6	3	No Current STEEL Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/STEEL 2	BRICK 2	BRICK 1	BRICK 1
Rehab Recommendations: Seal, cement coating (all)												
Corroded												
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
23	Hayward Street Easement	AT	2 --	1 Pick Hole(s)	8.1	3	No Current STEEL Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 3	BRICK 3	PARGED 1	CNI 0
Seal, cement coating												
Corroded												
Marks to 3.0 Ft												
Drainage MH: <input type="checkbox"/>												
Weather: CLEAR												
Missing mortar, loose pieces, broken brick												
Missing mortar, light mineral deposits												
High flow												

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				General Observations				Manhole Structural Condition and Observations				
Manhole Number	Location	Grade	Drainage				Observation	Manhole Components				
			Cover Description	Area	Steps	Surcharge		Corbel	Walls	Floor	Invert	
24	Hayward Street Easement	AT	-- --	Pick Hole(s)	8.1	3	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/BLOCK/PAR 2	BRICK 3 144	BRICK 2	BRICK
			-- --	Lift Hole(s)		CAST	Surcharge Evident					
			-- --	Other Hole(s)		Corroded	Marks to 3.0 Ft					
Seal, cement coating (all)							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					
25	Hayward Street Easement	BELOW 3	-- --	Pick Hole(s)	150.0	0	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2	BRICK 2	BRICK 1	BRICK
			-- --	Lift Hole(s)		NONE	Surcharge Evident					
			-- --	Other Hole(s)			Marks to 3.0 Ft					
Rehab Recommendations: Cement coating corbel/wall							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					
26	Hayward Street Easement	ABOVE 4	-- --	Pick Hole(s)	3.6	0	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2	BRICK 2	BRICK 1	BRICK
			-- --	Lift Hole(s)		NONE	Surcharge Evident					
			-- --	Other Hole(s)			Marks to 3.0 Ft					
Rehab Recommendations: Cement sealing (all)							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					
27	Master Drive	AT	-- --	Pick Hole(s)	3.6	0	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BLOCK 2	BRICK 0	BRICK 1	BRICK
			-- --	Lift Hole(s)		NONE	Surcharge Evident					
			-- --	Other Hole(s)								
INSPECTED FROM SURFACE												
Rehab Recommendations: Frame seal poor							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					

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			Area	Steps	Surcharge	Corbel	Walls		Floor	Invert		
28	Master Drive R.O.W.	ABOVE 2	-- --	Pick Hole(s)	0.0	0	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	0	0	0	0
Could Not Locate Manhole.				Drainage MH: <input type="checkbox"/>		Weather: CLEAR						
29	Beaver Street at railroad crossing	BELOW 0.25	-- --	Pick Hole(s)	10.8	0	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2	BRICK 1	BRICK/PARGED 1	BRICK 1
INSPECTED FROM SURFACE				Drainage MH: <input type="checkbox"/>		Weather: CLEAR		Missing mortar				
30	Beaver Street R.O.W.	ABOVE 12	-- --	Pick Hole(s)	3.6	0	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2	CIP 1	NONE 0	CIP 1
				Drainage MH: <input type="checkbox"/>		Weather: CLEAR		Missing mortar at frame seal, light roots				
31	Beaver Street R.O.W.	ABOVE 12	-- --	Pick Hole(s)	3.6	0	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 3	BRICK 4	CNI 4	CNI 4
INSPECTED FROM SURFACE				Drainage MH: <input type="checkbox"/>		Weather: CLEAR		Roots, missing mortar	Roots	Roots	Roots	Roots, channel restricted 15%
Frame seal and exterior cement coating missing, heavy root intrusion				Drainage MH: <input type="checkbox"/>		Weather: CLEAR						

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		Grade	Cover Description		Drainage		Surcharge	Observation	Manhole Components			
					Area	Steps			Corbel	Walls	Floor	Invert
32	Beaver Street R.O.W.	ABOVE 14	2 --	0.5 -- Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	8.1	0 NONE	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BLOCK 2 Minor roots at frame seal	BLOCK 2 Minor roots	PIP 1	CIP 1
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
33	Beaver Street R.O.W.	ABOVE 9	-- --	Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	3.6	0 NONE	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Roots, missing mortar	BRICK 2 Roots	BRICK 1	BRICK 2 Missing mortar
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
34	Beaver Street R.O.W.	ABOVE 3	-- --	Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	3.6	0 NONE	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Roots	BRICK 2 Roots	BRICK 1	BRICK 2 Missing mortar
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
35	Beaver Street R.O.W.	AT	-- --	Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s)	0.0	0	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	0	0	0	0
Could Not Locate Manhole.							Drainage MH: <input type="checkbox"/> Weather: CLEAR					

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					Area	Steps			Corbel	Walls	Floor	Invert
36	Beaver Street R.O.W.	BELOW 3	2 1 -- -- -- --	Pick Hole(s) Lift Hole(s) Other Hole(s)	4.8	0 NONE	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Light roots	BRICK 2 Light roots	BRICK 2 Moderate roots	BRICK 2 Moderate roots
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
37	Beaver Street R.O.W.	ABOVE 6	-- -- -- -- -- --	Pick Hole(s) Lift Hole(s) Other Hole(s)	3.6	1 NONE	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Moderate roots	BRICK 2 Heavy roots	BRICK 2 Heavy roots	BRICK 1
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
38	Beaver Street	ABOVE 2	2 1 -- -- -- --	Pick Hole(s) Lift Hole(s) Other Hole(s)	8.1	0 NONE	No Current Surcharge Evident Marks to 3.0 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Missing mortar, light roots	CAST IRON 2 Tuberculated	NONE 0	CAST IRON 2 Tuberculated
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
39	Beaver Street R.O.W.	BELOW 2	-- -- -- -- -- --	Pick Hole(s) Lift Hole(s) Other Hole(s)	22.5	3 STEEL Corroded	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Moderate roots	BRICK 2 Moderate roots	BRICK 2 Light roots	BRICK 1
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					

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		Grade	Cover Description		Drainage		Surcharge	Observation	Manhole Components			
					Area	Steps			Corbel	Walls	Floor	Invert
40	Beaver Street R.O.W.	ABOVE 8	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	3.6	0 NONE Marks to 3.5 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 3 Missing mortar, light roots, broken brick	BRICK/CAST IRON 2 Light roots, tuberculated	CAST IRON 2 Tuberculated	CAST IRON 2 Tuberculated
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
40A	Beaver Street R.O.W.	ABOVE 6	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	8.1	1 ALUM Marks to 4.0 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PRECAST 2 Missing mortar at frame	PRECAST/PIP 2 Light roots through barrel joints	BRICK 2 Light roots	BRICK 1
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
41	Beaver Street R.O.W. At railroad tracks and I-495	ABOVE 2	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	3.6	2 ALUM Corroded Marks to 4.0 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PRECAST 2 Missing mortar at frame seal	PRECAST/PIP 2 Light roots	CNI 2 Light roots, missing mortar, underwater	CNI 3 Moderate roots, underwater
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					
42	West Central Street R.O.W.	ABOVE 0.5	--	--	Pick Hole(s) Lift Hole(s) Other Hole(s)	3.6	1 STEEL/ALUM Marks to 4.0 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BLOCK 1 Roots	PRECAST/PIP 2	PIP 1	BRICK 1
							Drainage MH: <input type="checkbox"/> Weather: CLEAR					

INSPECTED FROM SURFACE

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Manhole Number	Location	Grade	Cover Description			Drainage			Observation	Manhole Components			
						Area	Steps			Surcharge	Corbel	Walls	Floor
46	Pond Street Easement	ABOVE 0.6	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	2.7	1 ALUM	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/PARGED 1	PRECAST 1	PARGED/BRICK 1	PARGED/BRICK 1
INSPECTED FROM SURFACE													
									Drainage MH: <input type="checkbox"/>				
									Weather: CLEAR				
46A	Pond Street Easement	ABOVE 1.5	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	1.8	1 ALUM	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK 2 Roots	PRECAST 1	PARGED 1	PARGED 1
INSPECTED FROM SURFACE													
Rehab Recommendations: Cement lining on corbel									Drainage MH: <input type="checkbox"/>				
									Weather: CLEAR				
47	Pond Street Easement	AT	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	2.7	1 ALUM	No Current Surcharge Evident Marks to 12.0 Ft	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK/BLOCK/PAR 1	PRECAST 1	PARGED/BRICK 1	PARGED/BRICK 1
INSPECTED FROM SURFACE													
									Drainage MH: <input type="checkbox"/>				
									Weather: CLEAR				
47A	Pond Street Easement	ABOVE 10	2	1	Pick Hole(s) Lift Hole(s) Other Hole(s)	2.7	1 ALUM	No Current Surcharge Evident	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PARGED 2 Roots	PRECAST 1	PIP 1	PIP 1
INSPECTED FROM SURFACE													
Rehab Recommendations: Cement lining on corbel									Drainage MH: <input type="checkbox"/>				
									Weather: CLEAR				

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						Area	Steps		Corbel	Walls	Floor	Invert
51.1	Pond Street Easement	ABOVE 1	-- --	Pick Hole(s)	2.7	0	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	BRICK	BRICK	BRICK	BRICK
			-- --	Lift Hole(s)		NONE	Surcharge Evident		1	2	2	1
			-- --	Other Hole(s)						Very light roots	Very light roots	
							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					
52	Pond Street Easement	BELOW 1.75	4 --	0.8 Pick Hole(s)	45.0	1	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS	PRECAST	PRECAST	BRICK	BRICK
			-- --	Lift Hole(s)		ALUM	Surcharge Evident		1	1	1	1
			-- --	Other Hole(s)								
							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					
53	Pond Street Easement	AT	-- --	Pick Hole(s)	0.0	0	No Current	MATERIAL CONDITION LEAKS (gpd) PHOTO DEFECTS				
			-- --	Lift Hole(s)			Surcharge Evident		0	0	0	0
			-- --	Other Hole(s)								
							Drainage MH: <input type="checkbox"/>					
							Weather: CLEAR					

Could Not Locate Manhole.

The following is a summary based on the entire SubSystem
selected (Common, Combined and Sanitary)

INSPECTED FROM SURFACE	30
INTERNAL INSPECTION	25
COULD NOT LOCATE	4
TOTAL MANHOLES IN SUBSYSTEM:	59

Summary of Line Observations

Table 2
Franklin, Ma
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
1A	IN FROM NNE	10' 04"	8	VCP	4	0.5	4		
	IN FROM 1	10' 04"	18	PVC	13	4	0		Slow flow
	OUT TO 2	10' 05"	16	CIP	10	3	0		
1	INSPECTED FROM SURFACE								
	IN FROM NE	10' 03"	18	PVC		3	0		
	OUT TO 1A	10' 04"	18	PVC		3	0		
2	INSPECTED FROM SURFACE								
	IN FROM 1A	09' 08"	16	CIP		3	0		
	OUT TO 3	09' 09"	16	CIP		3	0		
3	INSPECTED FROM SURFACE								
	IN FROM 2	08' 06"	16	CIP		3	0		
	OUT TO 4	08' 06"	16	CIP		3	0		
4	IN FROM NNW	04' 06"	4	CIP	10	0.1	0		Inside drop
	IN FROM South	07' 09"	10	CIP	10	0.25	0.75		Tuberculation, very light mineral deposits at pipe connection
	IN FROM West	07' 07"	10	CIP	10	0.4	0		
	IN FROM 3	08' 03"	16	CIP	10	3	0		Very light mineral deposits at pipe connection
	OUT TO 5	08' 04"	16	CIP	10	3	0		
5	INSPECTED FROM SURFACE								
	IN FROM 4	10' 09"	16	CIP		3	0		
	OUT TO 6	10' 10"	16	CIP		3	0		
6	INSPECTED FROM SURFACE								
	IN FROM 5	09' 02"	16	CIP	0	3	0		
	OUT TO 7	09' 03"	16	CIP	0	3	0		
7	IN FROM East	05' 03"	10	VCP	4	0.25	0		Pipe changes to 4" VCP at 1'
	IN FROM 6	05' 08"	16	CIP	10	3	0		
	OUT TO 8	05' 10"	16	CIP	10	3	0		

Table 2
Franklin, MA
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
8	INSPECTED FROM SURFACE								
	IN FROM 7	05' 10"	16	CIP		6	0		
	OUT TO 9	05' 11"	16	CIP		6	0		
9	INSPECTED FROM SURFACE								
	IN FROM 8	04' 04"	16	CIP		3	0		
	OUT TO 10	04' 05"	16	CIP		3	0		
10	INSPECTED FROM SURFACE								
	IN FROM West	06' 00"	8	PVC		0	0		
	IN FROM 9	06' 06"	16	CIP		6	0		
	OUT TO 11	06' 07"	16	CIP		6	0		
11	INSPECTED FROM SURFACE								
	IN FROM East	07' 05"	10	VCP		2	0		Light roots, missing mortar, mineral deposits at pipe connection
	IN FROM West	07' 05"	10	VCP		0.25	0		Mineral deposits at pipe connection
	IN FROM 10	07' 07"	16	CIP		10	0		Mineral deposits and roots at pipe connection
	OUT TO 12	07' 08"	18	CIP		8	0		
12	INSPECTED FROM SURFACE								
	IN FROM 11	07' 08"	18	CIP		8	0		
	OUT TO 13	07' 09"	18	CIP		8	0		
13	INSPECTED FROM SURFACE								
	IN FROM 12	09' 04"	18	CIP		8	0		
	OUT TO 14	09' 05"	18	CIP		8	0		
14	INSPECTED FROM SURFACE								
	IN FROM 13	08' 04"	18	CIP		6	0		
	OUT TO 15	08' 05"	18	CIP		6	0		
15	INSPECTED FROM SURFACE								
	IN FROM North	08' 07"	8	VCP		6	0		Slow flow
	IN FROM 14	08' 07"	18	CIP		6	0		
	OUT TO 16	08' 08"	18	CIP		8	0		

Table 2
Franklin, MA
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
16	INSPECTED FROM SURFACE								
	IN FROM 15	12' 06"	18	CIP		5	0		
	OUT TO 17	12' 07"	18	CIP		5	0		
17									
	IN FROM SW	11' 07"	6	ACP	13	0.25	0		
	IN FROM 16	15' 05"	18	CIP	10	5	0		Moderate tuberculation
	OUT TO 18	15' 08"	18	CIP	10	5	0		Moderate tuberculation
18	INSPECTED FROM SURFACE								
	IN FROM 17	12' 03"	18	CIP		9	0		
	OUT TO 19	12' 04"	18	CIP		9	0		
19	INSPECTED FROM SURFACE								
	IN FROM ESE	10' 02"	8	PVC		0.25	0		Inside drop
	IN FROM NNE	08' 11"	8	PVC		0	0		Inside drop
	IN FROM 18	11' 01"	18	CIP		5	0		
	OUT TO 20	11' 02"	18	CIP		5	0		
20	INSPECTED FROM SURFACE								
	IN FROM 19	07' 06"	18	CIP		6	0		
	OUT TO 21	07' 07"	18	CIP		6	0		
21	INSPECTED FROM SURFACE								
	IN FROM 20	08' 09"	18	CIP		5	0		Fast flow
	OUT TO 22	08' 10"	18	CIP		5	0		Fast flow
22									
	IN FROM East	05' 06"	8	PVC	13	0.1	0		Moderate tuberculation
	IN FROM 21	08' 00"	18	CIP	10	3.5	0		
	OUT TO 23	08' 02"	18	CIP	10	4.5	0		White colored flow, moderate tuberculation
23									
	IN FROM 22	06' 00"	18	CIP	10	7.5	0	144	Pipe connection leak, moderate tuberculation
	OUT TO 24	06' 02"	18	CIP	10	7	0	144	Pipe connection leak, moderate tuberculation

Table 2
Franklin, MA
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
24	IN FROM SE	08' 02"	12	VCP		2.2	0		Pipe changes to 8" VCP at 1', service
	IN FROM 23	08' 08"	18	CIP	10	5.75	0		Moderate tuberculation
	OUT TO 25	08' 11"	18	CIP	10	7.75	2		Moderate tuberculation
25	IN FROM 24	04' 03"	20	CIP	10	8	0		Moderate tuberculation
	OUT TO 26	04' 05"	20	CIP	10	8	0		Moderate tuberculation
26	IN FROM 25	04' 04"	20	CIP		6	0		Moderate tuberculation
	OUT TO 27	04' 05"	20	CIP		6	0		Moderate tuberculation
27	INSPECTED FROM SURFACE								
	IN FROM East	03' 00"	6	PVC		0	0		
	IN FROM West	03' 10"	8	PVC		0	0		
	IN FROM 26	04' 11"	20	CIP		8	0		Tuberculation
	OUT TO 28	05' 00"	20	CIP		9.25	0		
29	INSPECTED FROM SURFACE								
	IN FROM NNE	05' 11"	15	CIP		6	1		
	IN FROM 28	06' 03"	20	CIP		10	0.125		
	OUT TO 30	06' 04"	24	CIP		10	0.125		
30	IN FROM 29	04' 03"	24	CIP		9	0.75		Tuberculation
	OUT TO 31	04' 03"	24	CIP		9	0.75		Tuberculation
31	INSPECTED FROM SURFACE								
	IN FROM 30	04' 07"	24	CIP		8	0		Tuberculation
	OUT TO 32	04' 08"	24	CIP		8	0		
32	IN FROM 31	05' 02"	24	CIP	10	7.5	0		Heavy tuberculation
	IN FROM 44A	04' 03"	15	ACP	13	1.7	0		Missing mortar at pipe connection
	OUT TO 33	05' 02"	24	CIP	10	7.7	0		Heavy tuberculation

Table 2
Franklin, MA
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
33	IN FROM 32	04' 06"	24	CIP		7.5	0		Tuberculation
	OUT TO 34	04' 07"	24	CIP		7.5	0		Tuberculation
34	IN FROM 33	04' 04"	24	CIP		9	0		Tuberculation, Lower than outgoing line
	OUT TO 35	04' 00"	24	CIP		9	0		Tuberculation
36	IN FROM 35	04' 05"	24	CIP	10	9	0		Tuberculated 1"
	OUT TO 37	04' 08"	24	CIP	10	9	0		Tuberculated 1"
37	IN FROM 36	04' 05"	24	CIP	10	9	0		Tuberculated 1"
	OUT TO SE	03' 03"	8	CIP		0	0		Valved off at 48"
	OUT TO 38	04' 06"	24	CIP	10	9	0		Tuberculated 1"
38	IN FROM 37	04' 09"	24	CIP	10	9	0		Tuberculated
	OUT TO 39	04' 10"	24	CIP	10	9	0		Tuberculated
39	IN FROM 38	07' 05"	24	CIP	10	9	0		Tuberculated 1"
	OUT TO 40	07' 07"	24	CIP	10	10	0		Tuberculated 1"
40A	IN FROM 40	07' 02"	24	CIP	10	11	0		Tuberculated 1"
	OUT TO 41	07' 04"	24	CIP	10	11	0		
40	IN FROM 39	05' 10"	24	CIP	10	9	0		Heavy tuberculation 1"
	OUT TO 40A	05' 11"	24	CIP	10	9	0		Tuberculated 1"
41	IN FROM SW	08' 08"	16	PVC	13	8.5	0		
	IN FROM 40A	09' 07"	24	CIP	10	14	3.5		Moderate grease
	OUT TO 42	09' 08"	24	CIP	10	14	2.5		Moderate grease

Table 2
Franklin, MA
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
42	INSPECTED FROM SURFACE								
	IN FROM 41	19' 10"	24	CIP		13	0		
	OUT TO 43	19' 11"	24	CIP		13	0		
43	INSPECTED FROM SURFACE								
	IN FROM East	04' 07"	6	PVC		0.1	0		Inside drop
	IN FROM ESE	02' 11"	6	PVC		0.1	0		Inside drop
	IN FROM SSE	12' 02"	8	PVC		3	0		Inside drop
	IN FROM 42	44' 02"	24	CIP		10	0		
	OUT TO 44	44' 02"	24	CIP		10	0		
44A	INSPECTED FROM SURFACE								
	IN FROM NE	03' 05"	15	ACP		5	0		
	IN FROM NW	02' 06"	4	ACP		0.1	0		Moderate roots at pipe connection
	OUT TO 32	03' 05"	15	ACP		5	0		
44									
	IN FROM 43	46' 03"	24			9	0		Manhole frame at crown level obscures view into pipe, could not lamp pipe
	OUT TO 45	46' 03"	24			9	0		Manhole frame at crown level obscures view into pipe, could not lamp pipe
46A	INSPECTED FROM SURFACE								
	IN FROM East	17' 00"	12	VCP		1	0		Inside drop
	IN FROM 46	18' 04"	24	RCP		6	0		
	OUT TO 47	18' 05"	24	RCP		6	0		
46	INSPECTED FROM SURFACE								
	IN FROM 45	20' 06"	24	VCP		6	0		
	OUT TO 46A	20' 07"	24	VCP		6	0		
47A	INSPECTED FROM SURFACE								
	IN FROM SSE	05' 00"	4	PVC		0	0		
	IN FROM 47	07' 05"	24	VCP		6	0		
	OUT TO 48	07' 06"	24	VCP		6	0		
47	INSPECTED FROM SURFACE								
	IN FROM 46A	14' 10"	24	RCP		6	0		
	OUT TO 47A	14' 11"	24	VCP		6	0		

Table 2
Franklin, Ma
Summary of Line Observations
During Structural Inspection

Manhole Number	Line Section	Depth	Pipe Diameter (Inches)	Pipe Material	Joint Length (Feet)	Observed Flow Depth (Inches)	Observed Debris Depth (Inches)	Pipe Conn Leakage (Gpd)	Observations
48									
	IN FROM 47A	05' 02"	24	VCP	4	6	0		Roots at all joints
	OUT TO 49	05' 03"	24	VCP	4	6	0		Very light roots
49	INSPECTED FROM SURFACE								
	IN FROM 48	09' 08"	24	VCP		6	0		
	OUT TO 50	09' 09"	24	VCP		6	0		
50									
	IN FROM 49	09' 04"	24	VCP	4	7	0		Very light roots at second joint
	OUT TO 51.1	09' 05"	24	VCP	4	7	0		
51									
	IN FROM 51.1	15' 01"	24	VCP	4	6	0		
	OUT TO 52	15' 02"	24	RCP	4	6	0		
51.1									
	IN FROM 50	04' 05"	24	VCP	4	7	0		Very light roots at all joints except second joint which has moderate roots
	OUT TO 51	04' 06"	24	VCP	4	7	0		Very light roots at all joints
52	INSPECTED FROM SURFACE								
	IN FROM East	12' 05"	12	VCP	4	1	0		Inside drop
	IN FROM 51	14' 07"	24	RCP	4	6	0		
	OUT TO 53	14' 08"	24	RCP	4	6	0		

The following is a summary based on the entire
SubSystem selected (Common, Combined and Sanitary)

INSPECTED FROM SURFACE	30
INTERNAL INSPECTION	25
COULD NOT LOCATE	4
TOTAL MANHOLES IN SUBSYSTEM:	59

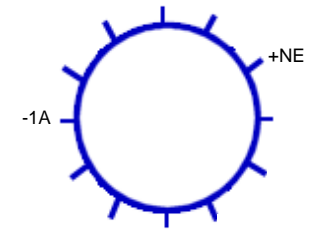
Manhole Inspection Logs

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Cottage Street S.C. Rossi Automotive
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 14:12

Manhole No.: 1
 Sub-System: N/A



13 Ft. to DS MH #: 1A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 23.75 In. Inside Frame Dia.: 25.88 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	VINYL COATED	1			
WALLS	PRECAST	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	NE	10' 03"	18	PVC		3.00	0			0	
OUT TO	1A	10' 04"	18	PVC		3.00	0			0	

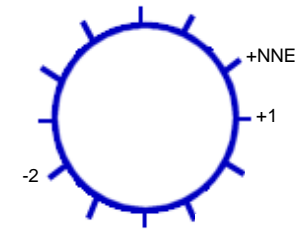
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Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, Ma
 Street: Cottage Street S.C. Rossi Automotive
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 14:03

Manhole No.: 1A
 Sub-System: N/A



23 Ft. to DS MH #: 2

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 23.75 In. Inside Frame Dia.: 25.88 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	2			Holding 4" of debris



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

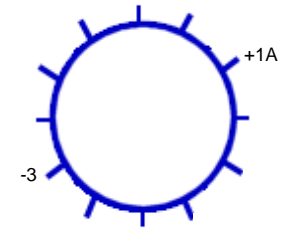
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	NNE	10' 04"	8	VCP	4	0.50	4.00			1	
IN FRO	1	10' 04"	18	PVC	13	4.00	0			1	Slow flow
OUT TO	2	10' 05"	16	CIP	10	3.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Cottage Street at Union Street
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 14:38

Manhole No.: 2
 Sub-System: N/A



202 Ft. to DS MH #: 3

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.88 In. Inside Frame Dia.: 23.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	1A	09' 08"	16	CIP		3.00	0			0	
OUT TO	3	09' 09"	16	CIP		3.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

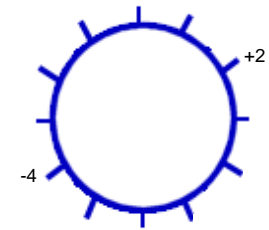
Municipality: Franklin, Ma
 Street: Cottage Street Front of Aubuchon Hardware
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 15:20

Manhole No.: 3
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 2.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 10 X 5 X 0.9 = 45.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



212 Ft. to DS MH #: 46

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.75 In. Inside Frame Dia.: 23.63 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

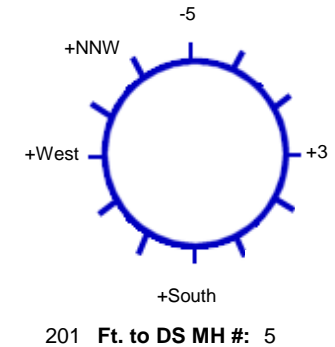
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	2	08' 06"	16	CIP		3.00	0			0	
OUT TO	4	08' 06"	16	CIP		3.00	0			0	

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, Ma			Manhole No.:	4
Street:	Cottage Street at Saxon Street			Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	EM/RV	Prefix #:	
Weather:	CLEAR	Temp:	0	Time:	15:27



COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried:	<input type="checkbox"/> CNL:	<input type="checkbox"/> CNI:	<input type="checkbox"/>		
Grade:	BELOW		3 In.		
Cracked pavement surrounding frame					
Drainage Area 1:		Drainage Area 2:		Holes In Cover	
10 X 5 X 0.9 = 45.0 (SQFT)		(if applicable)		QTY SIZE (In)	
X X 0.3 = (SQFT)				-- --	

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 21.25 In. Inside Frame Dia.: 23.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	2			Missing mortar, loose pieces
STEPS	STEEL	2			Corroded
WALLS	BRICK/PARGED	2			Very light mineral deposits
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS											
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	NNW	04' 06"	4	CIP	10	0.10	0			1	Inside drop
IN FRO	South	07' 09"	10	CIP	10	0.25	0.75			2	Tuberculation, very light mineral deposits at pipe connection
IN FRO	West	07' 07"	10	CIP	10	0.40	0			1	
IN FRO	3	08' 03"	16	CIP	10	3.00	0			1	Very light mineral deposits at pipe connection
OUT TO	5	08' 04"	16	CIP	10	3.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

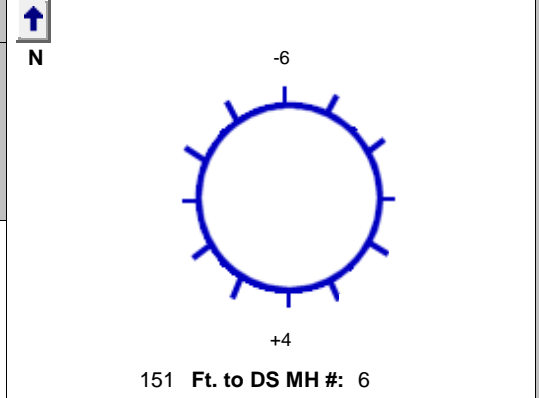
Municipality: Franklin, Ma
 Street: Saxon Street
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:03

Manhole No.: 5
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.5 In. Inside Frame Dia.: 26.13 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BLOCK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	4	10' 09"	16	CIP		3.00	0			0	
OUT TO	6	10' 10"	16	CIP		3.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

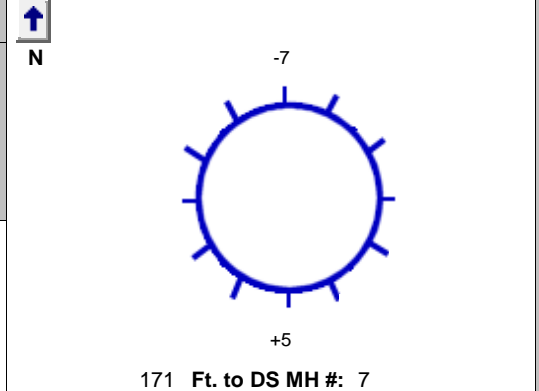
Municipality: Franklin, Ma
 Street: Saxon Street Easement In front of Franklin Paint
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 15:41

Manhole No.: 6
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 20.75 In. Inside Frame Dia.: 23.25 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	PARGED/BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

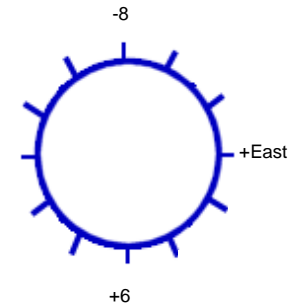
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	5	09' 02"	16	CIP	0	3.00	0			0	
OUT TO	7	09' 03"	16	CIP	0	3.00	0			0	

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, Ma			Manhole No.:	7
Street:	Saxon Street Easement In rear of Franklin Paint			Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	EM/RV	Prefix #:	
Weather:	CLEAR	Temp:	0	Time:	15:54



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: AT	In.	Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT)		Holes In Cover	2 1
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 20.25 In. Inside Frame Dia.: 26.88 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL/BRICK	3			Corroded
WALLS	BRICK	1			
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

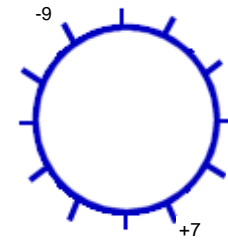
LINE CONDITIONS											
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	05' 03"	10	VCP	4	0.25	0			1	Pipe changes to 4" VCP at 1'
IN FRO	6	05' 08"	16	CIP	10	3.00	0			1	
OUT TO	8	05' 10"	16	CIP	10	3.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, MA
 Street: Cottage Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:57

Manhole No.: 8
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK	2			Missing mortar
STEPS	STEEL	2			Corroded
WALLS	BRICK	2			Wet to 2', mineral deposits
FLOOR	BRICK/PIP	2			Mineral deposits
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

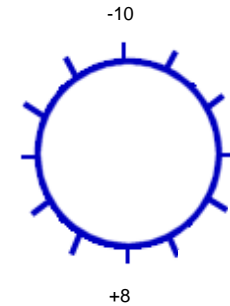
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	7	05' 10"	16	CIP		6.00	0			0	
OUT TO	9	05' 11"	16	CIP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Fisher Street Easement
 Inspection Date: 5/10/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 8:09

Manhole No.: 9
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 21.13 In. Inside Frame Dia.: 23.63 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK	1			
STEPS	NONE	0			
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

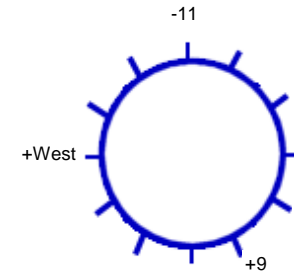
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	8	04' 04"	16	CIP		3.00	0			0	
OUT TO	10	04' 05"	16	CIP		3.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, MA
 Street: Cottage Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:35

Manhole No.: 10
 Sub-System: N/A



172 Ft. to DS MH #: 11

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BLOCK	1			
STEPS	NONE	0			
WALLS	BRICK	2			Roots, mineral deposits
FLOOR	BRICK	2			Loose pieces, roots
INVERT	BRICK/PIP	2			Loose pieces



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

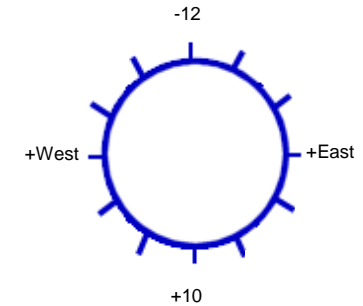
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	West	06' 00"	8	PVC		0	0			0	
IN FRO	9	06' 06"	16	CIP		6.00	0			0	
OUT TO	11	06' 07"	16	CIP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, MA
 Street: Fisher Street at Sugarbeet Road
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:20

Manhole No.: 11
 Sub-System: N/A



192 Ft. to DS MH #: 12

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 3 X 3 X 0.3 = 2.7 (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK	3			Mineral deposits, roots, wet to 3'
FLOOR	BRICK	1			
INVERT	BRICK	2			Missing mortar



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	07' 05"	10	VCP		2.00	0			0	Light roots, missing mortar, mineral deposits at pipe connection
IN FRO	West	07' 05"	10	VCP		0.25	0			0	Mineral deposits at pipe connection
IN FRO	10	07' 07"	16	CIP		10.00	0			0	Mineral deposits and roots at pipe connection
OUT TO	12	07' 08"	18	CIP		8.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



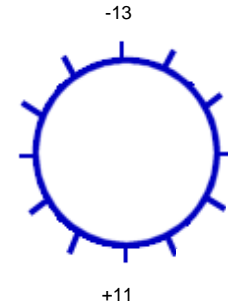
Municipality: Franklin, MA
 Street: 131 Fisher Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:15

Manhole No.: 12
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



193 Ft. to DS MH #: 13

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK/PARGED	2			Wet to 3', mineral deposits
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	11	07' 08"	18	CIP		8.00	0			0	
OUT TO	13	07' 09"	18	CIP		8.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



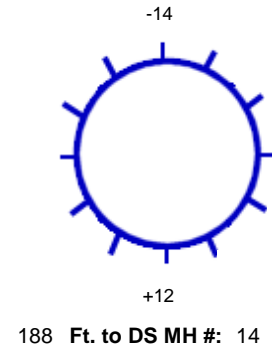
Municipality: Franklin, MA
 Street: 129 Fisher Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:12

Manhole No.: 13
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	2			Loose pieces
STEPS	STEEL	3			Corroded
WALLS	BRICK/PARGED	2			Mineral deposits
FLOOR	BRICK/PARGED	2			Mineral deposits
INVERT	BRICK/PARGED	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	12	09' 04"	18	CIP		8.00	0			0	
OUT TO	14	09' 05"	18	CIP		8.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

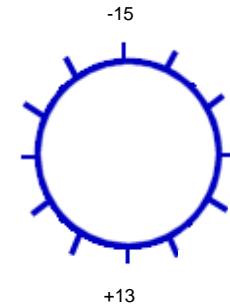
Municipality: Franklin, MA
 Street: 121 Fisher Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 12:07

Manhole No.: 14
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



180 Ft. to DS MH #: 15

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK/PARGED	2			Mineral deposits
FLOOR	PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	13	08' 04"	18	CIP		6.00	0			0	
OUT TO	15	08' 05"	18	CIP		6.00	0			0	

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

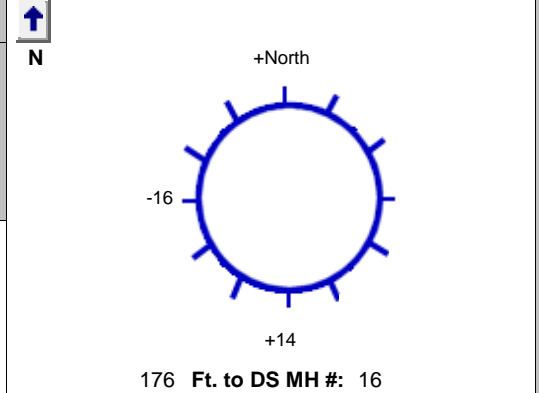
Municipality: Franklin, MA
 Street: Hayward Street at Fisher Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 11:55

Manhole No.: 15
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.25 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK/PARGED	2			Mineral deposits, missing pieces
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	North	08' 07"	8	VCP		6.00	0			0	Slow flow
IN FRO	14	08' 07"	18	CIP		6.00	0			0	
OUT TO	16	08' 08"	18	CIP		8.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



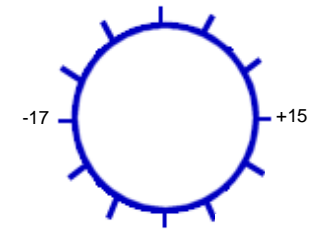
Municipality: Franklin, MA
 Street: 14 Hayward Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 11:51

Manhole No.: 16
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



177 Ft. to DS MH #: 17

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	2			Corroded
WALLS	BRICK/PARGED	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	15	12' 06"	18	CIP		5.00	0			0	
OUT TO	17	12' 07"	18	CIP		5.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

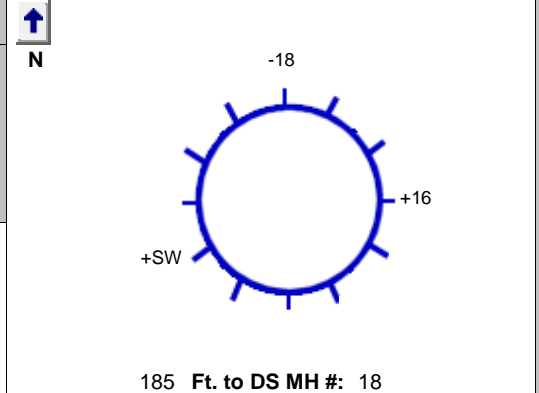
Municipality: Franklin, MA
 Street: 24 Hayward Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 11:40

Manhole No.: 17
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PARGED	1			
STEPS	STEEL	2			Corroded
WALLS	PARGED	3	0.05		Missing mortar, wet with mineral deposits to 3' above floor
FLOOR	BRICK	2			Missing mortar
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

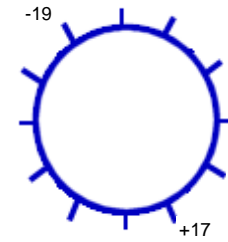
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	SW	11' 07"	6	ACP	13	0.25	0			1	
IN FRO	16	15' 05"	18	CIP	10	5.00	0			2	Moderate tuberculation
OUT TO	18	15' 08"	18	CIP	10	5.00	0			2	Moderate tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, MA
 Street: 42 Hayward Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 11:30

Manhole No.: 18
 Sub-System: N/A



186 Ft. to DS MH #: 19

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 2 X 0.9 = 5.4 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/PARGED	1			
STEPS	CAST	2			Corroded
WALLS	BRICK/PARGED	3			Wet to 2.5' above floor
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	17	12' 03"	18	CIP		9.00	0			0	
OUT TO	19	12' 04"	18	CIP		9.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



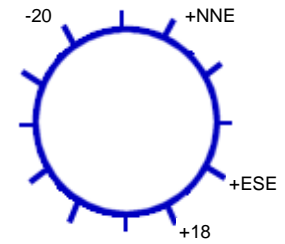
Municipality: Franklin, MA
 Street: 42 Hayward Street
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:58

Manhole No.: 19
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



185 Ft. to DS MH #: 20

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PARGED	2			Missing mortar, missing pieces
STEPS	CAST	2			Corroded
WALLS	BRICK/PARGED	2			Missing pieces
FLOOR	BRICK/PIP	1			
INVERT	BRICK	1			



Surcharge From Invert: Currently: Feet Marks To: 5 Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	ESE	10' 02"	8	PVC		0.25	0			0	Inside drop
IN FRO	NNE	08' 11"	8	PVC		0	0			0	Inside drop
IN FRO	18	11' 01"	18	CIP		5.00	0			0	
OUT TO	20	11' 02"	18	CIP		5.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

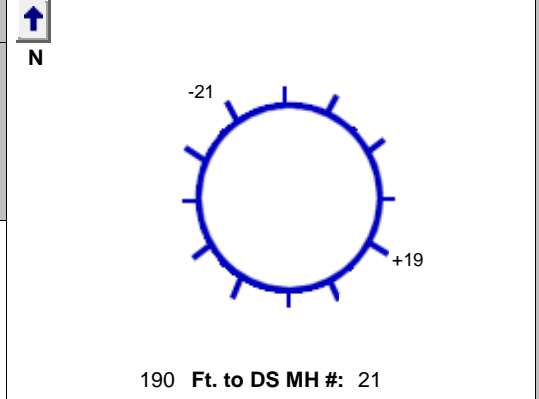
Municipality: Franklin, MA
 Street: 31 Hayward Street
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:51

Manhole No.: 20
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.2 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	CAST	2			Corroded
WALLS	BRICK	1			
FLOOR	PIP	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	19	07' 06"	18	CIP		6.00	0			0	
OUT TO	21	07' 07"	18	CIP		6.00	0			0	

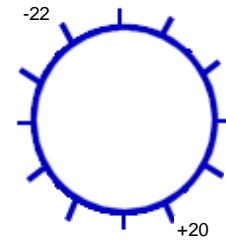
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Franklin, MA
 Street: 31 Hayward Street (lawn)
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:36

Manhole No.: 21
 Sub-System: N/A



193 Ft. to DS MH #: 22

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 2 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 5 X 5 X 0.3 = 7.5 (SQFT)

Holes In Cover QTY SIZE (In)
 2 0.5

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/BLOCK	1			
STEPS	STEEL	3			Corroded
WALLS	BRICK	2			Wet to 4'
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

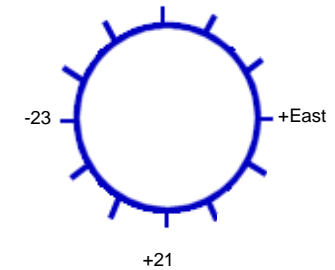
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	20	08' 09"	18	CIP		5.00	0			1	Fast flow
OUT TO	22	08' 10"	18	CIP		5.00	0			0	Fast flow

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	22
Street:	Hayward Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	15:45



242 Ft. to DS MH #: 23

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	6 In.	Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT)		Holes In Cover QTY: 2, SIZE (In): 1	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments: Rehab Recommendations: Seal, cement coating (all)

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/STEEL	2			Light roots
STEPS	STEEL	3			Corroded
WALLS	BRICK	2	0.1		Light roots, moderate mineral deposits
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS											
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	05' 06"	8	PVC	13	0.10	0			0	Moderate tuberculation
IN FRO	21	08' 00"	18	CIP	10	3.50	0			1	
OUT TO	23	08' 02"	18	CIP	10	4.50	0			2	White colored flow, moderate tuberculation

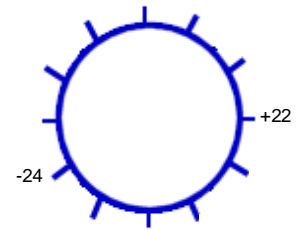
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Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Hayward Street Easement
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:35

Manhole No.: 23
 Sub-System: N/A



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

175 Ft. to DS MH #: 24

General Comments: Seal, cement coating

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	3			Missing mortar, loose pieces, broken brick
STEPS	STEEL	3			Corroded
WALLS	BRICK	3			Missing mortar, light mineral deposits
FLOOR	PARGED	1			
INVERT	CNI	0			High flow



Surcharge From Invert: Currently: Feet Marks To: 3 Feet

LINE CONDITIONS

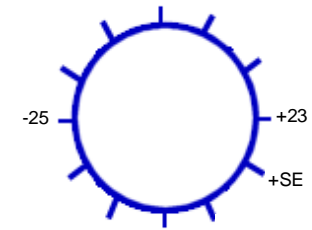
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	22	06' 00"	18	CIP	10	7.50	0	0.1		1	Pipe connection leak, moderate tuberculation
OUT TO	24	06' 02"	18	CIP	10	7.00	0	0.1		2	Pipe connection leak, moderate tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	24
Street:	Hayward Street Easement	Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	16:02



178 Ft. to DS MH #: 25

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: AT	In.	Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT)		Holes In Cover QTY SIZE (In) -- --	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments: Seal, cement coating (all)

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK/BLOCK/PARGED	2			Missing mortar, light mineral deposits
STEPS	CAST	3			Corroded
WALLS	BRICK	3	0.1		Moderate mineral deposits, wall leak
FLOOR	BRICK	2			Moderate mineral deposits
INVERT	BRICK	2			Moderate mineral deposits



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 3 Feet

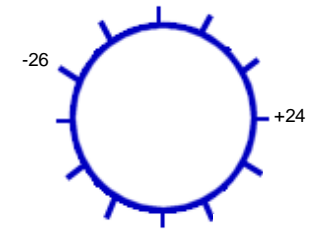
LINE CONDITIONS											
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO SE		08' 02"	12	VCP		2.20	0			1	Pipe changes to 8" VCP at 1', service
IN FRO 23		08' 08"	18	CIP	10	5.75	0			2	Moderate tuberculation
OUT TO 25		08' 11"	18	CIP	10	7.75	2.00			2	Moderate tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Hayward Street Easement
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 25
 Sub-System: N/A



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 3 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 10 X 50 X 0.3 = 150.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

167 Ft. to DS MH #: 26

General Comments: Rehab Recommendations: Cement coating corbel/wall

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Moderate tuberculation
CORBEL	BRICK	2			Light roots
STEPS	NONE	0			
WALLS	BRICK	2			Light roots
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: Currently: Feet Marks To: 3 Feet

LINE CONDITIONS

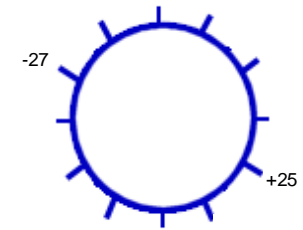
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	24	04' 03"	20	CIP	10	8.00	0			2	Moderate tuberculation
OUT TO	26	04' 05"	20	CIP	10	8.00	0			2	Moderate tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	26
Street:	Hayward Street Easement	Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	14:40



117 Ft. to DS MH #: 27

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	4 In.	Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT)		Holes In Cover QTY: -- SIZE (In): --	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments: Rehab Recommendations: Cement sealing (all)

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Light roots, light mineral deposits
STEPS	NONE	0			
WALLS	BRICK	2			Light roots
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 3 Feet

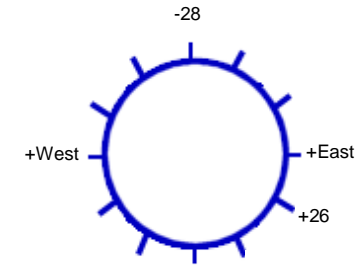
LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	25	04' 04"	20	CIP		6.00	0			2	Moderate tuberculation
OUT TO	27	04' 05"	20	CIP		6.00	0			2	Moderate tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, MA
 Street: Master Drive
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 27
 Sub-System: N/A



175 Ft. to DS MH #: 28

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments: Rehab Recommendations: Frame seal poor

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BLOCK	2			Missing mortar, minor no infiltration
STEPS	NONE	0			
WALLS	BRICK	0			
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	03' 00"	6	PVC		0	0			0	
IN FRO	West	03' 10"	8	PVC		0	0			0	
IN FRO	26	04' 11"	20	CIP		8.00	0			0	Tuberculation
OUT TO	28	05' 00"	20	CIP		9.25	0			0	

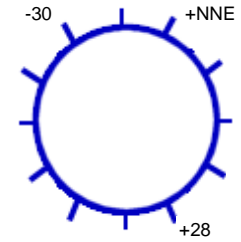
Flow Assessment Services, LLC. Structure Inspection Log										<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Internal		 N											
Municipality:		Franklin, MA						Manhole No.:		28													
Street:		Master Drive R.O.W.						Sub-System:		N/A													
Inspection Date:		5/9/2013		Inspector:		GW/JS		Prefix #:															
Weather:		CLEAR		Temp:		0		Time:															
COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>				COVER INFLOW POTENTIAL Drainage Area 1: X X 0.9 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT)				<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">QTY</th> <th style="width: 10%;">SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Holes In Cover</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </tbody> </table>					QTY	SIZE (In)	Holes In Cover	--	--	Ft. to DS MH #:					
	QTY	SIZE (In)																					
Holes In Cover	--	--																					
General Comments:																							
INTERNAL MANHOLE OBSERVATIONS										Clear Opening Dia.:				In.		Inside Frame Dia.:		0		In.			
ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS																		
FRAME		0																					
CORBEL		0																					
STEPS		0																					
WALLS		0																					
FLOOR		0																					
INVERT		0																					
Surcharge From Invert:		NONE EVIDENT		Currently:				Feet		Marks To:				Feet									
LINE CONDITIONS																		Image Path: <input style="width: 100%;" type="text"/>					
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments												

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality:	Franklin, MA	Manhole No.:	29
Street:	Beaver Street at railroad crossing	Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: BELOW	0.25 In.	Drainage Area 1: 4 X 3 X 0.9 = 10.8 (SQFT)		Holes In Cover QTY SIZE (In) -- --	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Missing mortar
STEPS	NONE	0			
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS										
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5
IN FRO	NNE	05' 11"	15	CIP		6.00	1.00			0
IN FRO	28	06' 03"	20	CIP		10.00	0.13			0
OUT TO	30	06' 04"	24	CIP		10.00	0.13			0

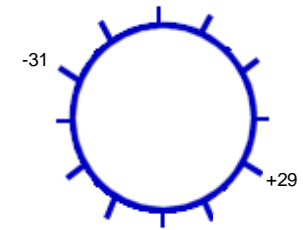
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Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	30
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	16:00



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	12 In.	Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT)			Holes In Cover QTY: -- SIZE (In): --
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Missing mortar at frame seal, light roots
STEPS	NONE	0			
WALLS	CIP	1			
FLOOR	NONE	0			
INVERT	CIP	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

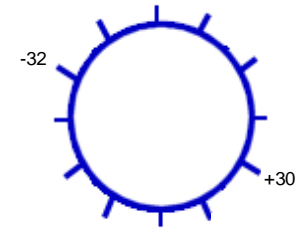
LINE CONDITIONS											
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	29	04' 03"	24	CIP		9.00	0.75			2	Tuberculation
OUT TO	31	04' 03"	24	CIP		9.00	0.75			2	Tuberculation

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality:	Franklin, MA	Manhole No.:	31
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	QTY	SIZE (In)
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Holes In Cover	--
Grade: ABOVE 12 In.	2 X 2 X 0.9 = 3.6 (SQFT)		
	Drainage Area 2: (if applicable)		
	X X 0.3 = (SQFT)		

General Comments: Frame seal and exterior cement coating missing, heavy root intrusion

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Loose frame, missing mortar
CORBEL	BRICK	3			Roots, missing mortar
STEPS	NONE	0			
WALLS	BRICK	4			Roots
FLOOR	CNI	4			Roots
INVERT	CNI	4			Roots, channel restricted 15%



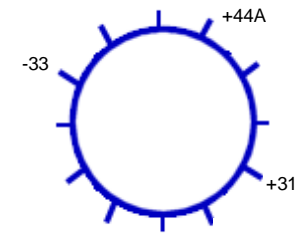
Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	30	04' 07"	24	CIP		8.00	0			0	Tuberculation
OUT TO	32	04' 08"	24	CIP		8.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	32
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



120 Ft. to DS MH #: 33

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:		QTY	SIZE (In)
Grade:	ABOVE 14 In.	3 X 3 X 0.9 = 8.1 (SQFT)		Holes In Cover	2 0.5
		Drainage Area 2: (if applicable)			
		X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BLOCK	2			Minor roots at frame seal
STEPS	NONE	0			
WALLS	BLOCK	2			Minor roots
FLOOR	PIP	1			
INVERT	CIP	1			



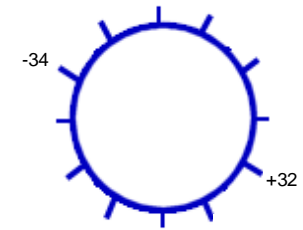
Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	31	05' 02"	24	CIP	10	7.50	0			3	Heavy tuberculation
IN FRO	44A	04' 03"	15	ACP	13	1.70	0			1	Missing mortar at pipe connection
OUT TO	33	05' 02"	24	CIP	10	7.70	0			3	Heavy tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	33
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	QTY	SIZE (In)
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Holes In Cover	--
Grade: ABOVE 9 In.	2 X 2 X 0.9 = 3.6 (SQFT)		
	Drainage Area 2: (if applicable)		
	X X 0.3 = (SQFT)		

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK	2			Roots, missing mortar
STEPS	NONE	0			
WALLS	BRICK	2			Roots
FLOOR	BRICK	1			
INVERT	BRICK	2			Missing mortar



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

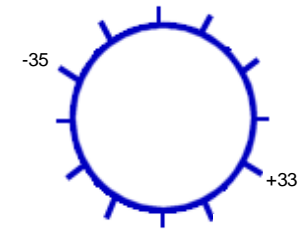
LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	32	04' 06"	24	CIP		7.50	0			2	Tuberculation
OUT TO	34	04' 07"	24	CIP		7.50	0			2	Tuberculation

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street R.O.W.
 Inspection Date: 5/9/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:48

Manhole No.: 34
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 3 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Roots
STEPS	NONE	0			
WALLS	BRICK	2			Roots
FLOOR	BRICK	1			
INVERT	BRICK	2			Missing mortar



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	33	04' 04"	24	CIP		9.00	0			2	Tuberculation, Lower than outgoing line
OUT TO	35	04' 00"	24	CIP		9.00	0			2	Tuberculation

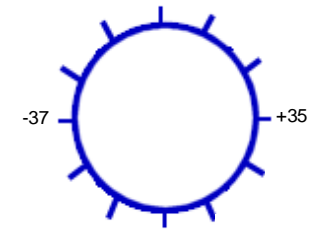
Flow Assessment Services, LLC. Structure Inspection Log										<input checked="" type="checkbox"/> Surface <input type="checkbox"/> Internal		 N											
Municipality:		Franklin, MA						Manhole No.:		35													
Street:		Beaver Street R.O.W.						Sub-System:		N/A													
Inspection Date:		5/9/2013		Inspector:		GW/JS		Prefix #:															
Weather:		CLEAR		Temp:		0		Time:															
COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>				COVER INFLOW POTENTIAL Drainage Area 1: X X 0.9 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT)				<div style="display: flex; justify-content: space-between;"> <div>Holes In Cover</div> <div>QTY SIZE (In)</div> </div> <div style="display: flex; justify-content: space-between;"> <div>--</div> <div>--</div> </div>				Ft. to DS MH #:											
General Comments:																							
INTERNAL MANHOLE OBSERVATIONS										Clear Opening Dia.:				In.		Inside Frame Dia.:		0		In.			
ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS																		
FRAME		0																					
CORBEL		0																					
STEPS		0																					
WALLS		0																					
FLOOR		0																					
INVERT		0																					
Surcharge From Invert:		NONE EVIDENT		Currently:				Feet		Marks To:				Feet									
LINE CONDITIONS																		Image Path: <input style="width: 100%;" type="text"/>					
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments												

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 10:00

Manhole No.: 36
 Sub-System: N/A



430 Ft. to DS MH #: 37

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 3 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 4 X 0.3 = 4.8 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Light roots
STEPS	NONE	0			
WALLS	BRICK	2			Light roots
FLOOR	BRICK	2			Moderate roots
INVERT	BRICK	2			Moderate roots



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

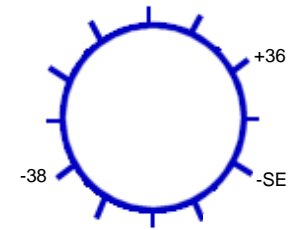
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	35	04' 05"	24	CIP	10	9.00	0			2	Tuberculated 1"
OUT TO	37	04' 08"	24	CIP	10	9.00	0			2	Tuberculated 1"

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 9:45

Manhole No.: 37
 Sub-System: N/A



210 Ft. to DS MH #: 38

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 6 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Moderate roots
STEPS	NONE	1			
WALLS	BRICK	2			Heavy roots
FLOOR	BRICK	2			Heavy roots
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

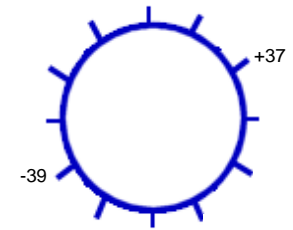
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	36	04' 05"	24	CIP	10	9.00	0			2	Tuberculated 1"
OUT TO	SE	03' 03"	8	CIP		0	0			2	Valved off at 48"
OUT TO	38	04' 06"	24	CIP	10	9.00	0			2	Tuberculated 1"

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 9:07

Manhole No.: 38
 Sub-System: N/A



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 2 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

160 Ft. to DS MH #: 37

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Missing mortar, light roots
STEPS	NONE	0			
WALLS	CAST IRON	2			Tuberculated
FLOOR	NONE	0			
INVERT	CAST IRON	2			Tuberculated



Surcharge From Invert: Currently: Feet Marks To: 3 Feet

LINE CONDITIONS

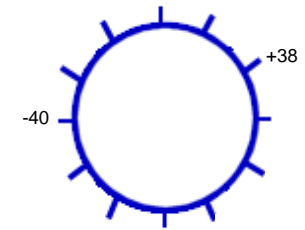
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	37	04' 09"	24	CIP	10	9.00	0			2	Tuberculated
OUT TO	39	04' 10"	24	CIP	10	9.00	0			2	Tuberculated

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	39
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/10/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



200 Ft. to DS MH #: 40

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 2 In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 5 X 5 X 0.9 = 22.5 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Moderate roots
STEPS	STEEL	3			Corroded
WALLS	BRICK	2			Moderate roots
FLOOR	BRICK	2			Light roots
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

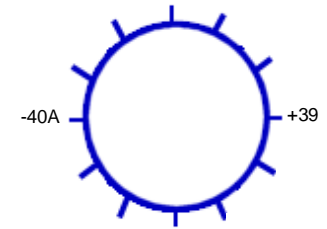
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	38	07' 05"	24	CIP	10	9.00	0			2	Tuberculated 1"
OUT TO	40	07' 07"	24	CIP	10	10.00	0			2	Tuberculated 1"

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 8:22

Manhole No.: 40
 Sub-System: N/A



60 Ft. to DS MH #: 40A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 8 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	3			Missing mortar to corbel
CORBEL	BRICK	3			Missing mortar, light roots, broken brick
STEPS	NONE	0			
WALLS	BRICK/CAST IRON	2			Light roots, tuberculated
FLOOR	CAST IRON	2			Tuberculated
INVERT	CAST IRON	2			Tuberculated



Surcharge From Invert: Currently: Feet Marks To: 3.5 Feet

LINE CONDITIONS

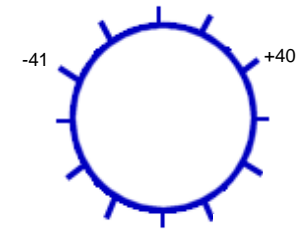
Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	39	05' 10"	24	CIP	10	9.00	0			2	Heavy tuberculation 1"
OUT TO	40A	05' 11"	24	CIP	10	9.00	0			2	Tuberculated 1"

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA	Manhole No.:	40A
Street:	Beaver Street R.O.W.	Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	



59 Ft. to DS MH #: 41

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	6 In.	Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT)		Holes In Cover QTY: 2 SIZE (In): 1	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PRECAST	2			Missing mortar at frame
STEPS	ALUM	1			
WALLS	PRECAST/PIP	2			Light roots through barrel joints
FLOOR	BRICK	2			Light roots
INVERT	BRICK	1			



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 4 Feet

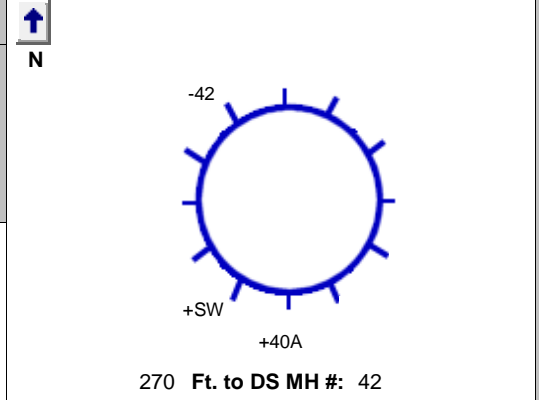
LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	40	07' 02"	24	CIP	10	11.00	0			2	Tuberculated 1"
OUT TO	41	07' 04"	24	CIP	10	11.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality:	Franklin, MA			Manhole No.:	41
Street:	Beaver Street R.O.W. At railroad tracks and I-495			Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS	Prefix #:	
Weather:	CLEAR	Temp:	0	Time:	

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	2 In.	Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT)		Holes In Cover QTY 2 SIZE (In) 1	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PRECAST	2			Missing mortar at frame seal
STEPS	ALUM	2			Corroded
WALLS	PRECAST/PIP	2			Light roots
FLOOR	CNI	2			Light roots, missing mortar, underwater
INVERT	CNI	3			Moderate roots, underwater



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 4 Feet

LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	SW	08' 08"	16	PVC	13	8.50	0			1	
IN FRO	40A	09' 07"	24	CIP	10	14.00	3.50			2	Moderate grease
OUT TO	42	09' 08"	24	CIP	10	14.00	2.50			2	Moderate grease

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



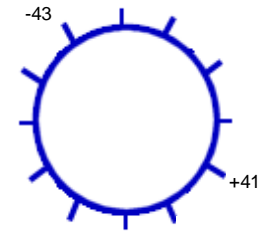
Municipality: Franklin, MA
 Street: West Central Street R.O.W.
 Inspection Date: 5/10/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time: 8:10

Manhole No.: 42
 Sub-System: N/A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



218 Ft. to DS MH #: 43

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BLOCK	1			
STEPS	STEEL/ALUM	1			
WALLS	PRECAST/PIP	2			Roots
FLOOR	PIP	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	41	19' 10"	24	CIP		13.00	0			0	
OUT TO	43	19' 11"	24	CIP		13.00	0			0	

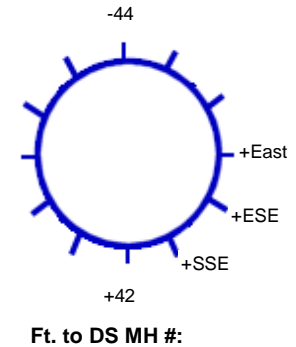
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality:	Franklin, MA	Manhole No.:	43
Street:	Franklin Plaza (rear)	Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	10:04

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: ABOVE	12 In.	Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT)		Holes In Cover QTY -- SIZE (In) --	
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	STEEL	4			Corroded
WALLS	BRICK	1			
FLOOR	PIP	1			
INVERT	CIP	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

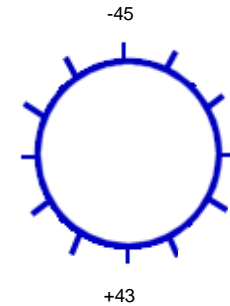
LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	04' 07"	6	PVC		0.10	0			0	Inside drop
IN FRO	ESE	02' 11"	6	PVC		0.10	0			0	Inside drop
IN FRO	SSE	12' 02"	8	PVC		3.00	0			0	Inside drop
IN FRO	42	44' 02"	24	CIP		10.00	0			0	
OUT TO	44	44' 02"	24	CIP		10.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, MA
 Street: Beaver Street R.O.W.
 Inspection Date: 5/8/2013 Inspector: GW/JS Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 44
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ CNL: ☐ CNI: ☐

Grade: AT In.

Blind flange

COVER INFLOW POTENTIAL

Drainage Area 1:

3 X 2 X 0.9 = 5.4 (SQFT)

Drainage Area 2: (if applicable)

X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments: Manhole has been brought to grade twice. Brick walls to 39' above invert. Precast wall to 46' above invert. Rehab Recommendations: Seal/coat walls, corbel, floor & invert

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	VINYL COATED	1			
WALLS	BRICK/PRECAST	3	0.2		Brick portion wet with mineral deposits to 8' above invert
FLOOR	PIP	1			
INVERT	PIP	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

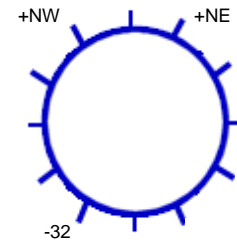
Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	43	46' 03"	24			9.00	0			1	Manhole frame at crown level obscures view into pipe, could not lamp pipe
OUT TO	45	46' 03"	24			9.00	0			1	Manhole frame at crown level obscures view into pipe, could not lamp pipe

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality:	Franklin, MA			Manhole No.:	44A
Street:	West Central Street R.O.W.			Sub-System:	N/A
Inspection Date:	5/9/2013	Inspector:	GW/JS	Prefix #:	
Weather:	CLEAR	Temp:	0	Time:	



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL			
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>			
Grade: AT	In.	Drainage Area 1: 2 X 3 X 0.9 = 5.4 (SQFT)		Holes In Cover	2 0.5
		Drainage Area 2: (if applicable) X X 0.3 = (SQFT)			

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PRECAST	1			
STEPS	NONE	0			
WALLS	PRECAST	1			
FLOOR	PIP	1			
INVERT	PIP	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS											Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	NE	03' 05"	15	ACP		5.00	0			0	
IN FRO	NW	02' 06"	4	ACP		0.10	0			0	Moderate roots at pipe connection
OUT TO	32	03' 05"	15	ACP		5.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log										<input checked="" type="checkbox"/> Surface <input type="checkbox"/> Internal		 N							
Municipality:		Franklin, MA						Manhole No.:		45									
Street:		Pond Street R.O.W.						Sub-System:		N/A									
Inspection Date:		5/8/2013		Inspector:		RV/EM		Prefix #:											
Weather:		CLEAR		Temp:		0		Time:											
COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>				COVER INFLOW POTENTIAL Drainage Area 1: X X 0.9 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT)				<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">QTY</th> <th style="width: 30%;">SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Holes In Cover</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </tbody> </table>					QTY	SIZE (In)	Holes In Cover	--	--	Ft. to DS MH #:	
	QTY	SIZE (In)																	
Holes In Cover	--	--																	
General Comments:																			
INTERNAL MANHOLE OBSERVATIONS										Clear Opening Dia.:				In.	Inside Frame Dia.:	0		In.	
ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS														
FRAME		0																	
CORBEL		0																	
STEPS		0																	
WALLS		0																	
FLOOR		0																	
INVERT		0																	
Surcharge From Invert:		NONE EVIDENT		Currently:				Feet	Marks To:				Feet						
LINE CONDITIONS															Image Path:				
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments								

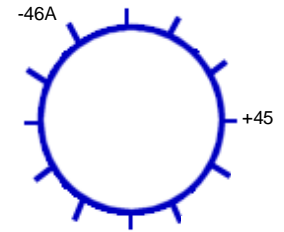
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality:	Franklin, Ma	Manhole No.:	46
Street:	Pond Street Easement	Sub-System:	N/A
Inspection Date:	5/8/2013	Inspector:	EM/RV
Weather:	CLEAR	Prefix #:	
		Temp:	0
		Time:	15:49

COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: ABOVE 0.6 In.	COVER INFLOW POTENTIAL Drainage Area 1: 3 X 3 X 0.3 = 2.7 (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT)	Holes In Cover <table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> </tr> </tbody> </table>	QTY	SIZE (In)	2	1
QTY	SIZE (In)					
2	1					



28 Ft. to DS MH #: 46A

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 23.88 In. Inside Frame Dia.: 26.13 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK/PARGED	1			
STEPS	ALUM	1			
WALLS	PRECAST	1			
FLOOR	PARGED/BRICK	1			
INVERT	PARGED/BRICK	1			



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS										
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5
IN FRO	45	20' 06"	24	VCP		6.00	0			0
OUT TO	46A	20' 07"	24	VCP		6.00	0			0

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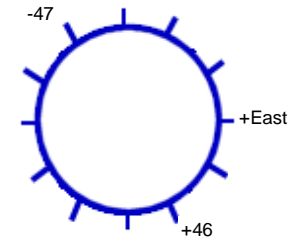
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/8/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:19

Manhole No.: 46A
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 1.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 2 X 0.3 = 1.8 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments: Rehab Recommendations: Cement lining on corbel

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 24 In. Inside Frame Dia.: 26.13 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK	2			Roots
STEPS	ALUM	1			
WALLS	PRECAST	1			
FLOOR	PARGED	1			
INVERT	PARGED	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

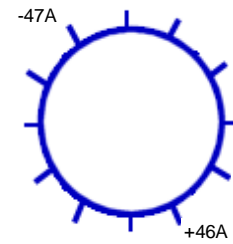
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	17' 00"	12	VCP		1.00	0			0	Inside drop
IN FRO	46	18' 04"	24	RCP		6.00	0			0	
OUT TO	47	18' 05"	24	RCP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/8/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 16:44

Manhole No.: 47
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 23 In. Inside Frame Dia.: 26 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BRICK/BLOCK/PARGED	1			
STEPS	ALUM	1			
WALLS	PRECAST	1			
FLOOR	PARGED/BRICK	1			
INVERT	PARGED/BRICK	1			



Surcharge From Invert: Currently: Feet Marks To: 12 Feet

LINE CONDITIONS

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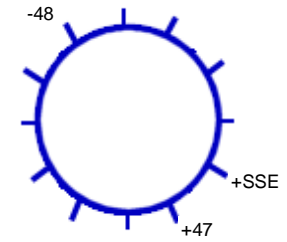
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	46A	14' 10"	24	RCP		6.00	0			0	
OUT TO	47A	14' 11"	24	VCP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 7:51

Manhole No.: 47A
 Sub-System: N/A



97 Ft. to DS MH #: 47

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 10 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments: Rehab Recommendations: Cement lining on corbel

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 20.5 In. Inside Frame Dia.: 23.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	PARGED	2			Roots
STEPS	ALUM	1			
WALLS	PRECAST	1			
FLOOR	PIP	1			
INVERT	PIP	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

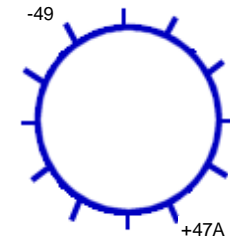
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	SSE	05' 00"	4	PVC		0	0			0	
IN FRO	47	07' 05"	24	VCP		6.00	0			0	
OUT TO	48	07' 06"	24	VCP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 8:28

Manhole No.: 48
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 6 --

General Comments: Rehab Recommendations: Cement lining on corbel

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: 20.38 In. Inside Frame Dia.: 23.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Roots
STEPS	STEEL	2			Corroded
WALLS	BRICK	2			Roots
FLOOR	BRICK/PARGED	2			Roots
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	47A	05' 02"	24	VCP	4	6.00	0			2	Roots at all joints
OUT TO	49	05' 03"	24	VCP	4	6.00	0			1	Very light roots

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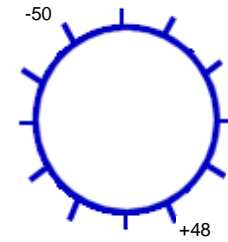
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 9:20

Manhole No.: 49
 Sub-System: N/A



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.25 In. Inside Frame Dia.: 26.13 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			Corroded
CORBEL	BLOCK	1			Very light roots
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			Very light roots
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

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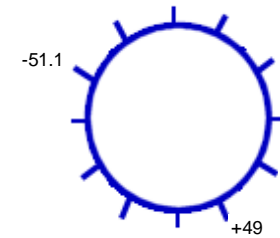
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	48	09' 08"	24	VCP		6.00	0			0	
OUT TO	50	09' 09"	24	VCP		6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013
 Weather: CLEAR
 Inspector: EM/RV
 Prefix #:
 Temp: 0
 Time: 10:00

Manhole No.: 50
 Sub-System: N/A



170 Ft. to DS MH #: 51

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 10 X 5 X 0.3 = 15.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.63 In. Inside Frame Dia.: 23.88 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	2			Very light roots
STEPS	STEEL	2			Corroded
WALLS	BRICK	1			
FLOOR	BRICK/PARGED	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

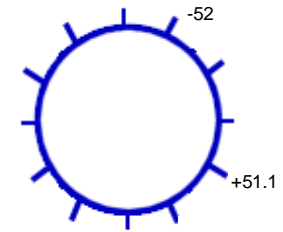
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	49	09' 04"	24	VCP	4	7.00	0			2	Very light roots at second joint
OUT TO	51.1	09' 05"	24	VCP	4	7.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 10:41

Manhole No.: 51
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 4 0.5

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 29.25 In. Inside Frame Dia.: 31.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	PRECAST	1			
STEPS	VINYL COATED/ALUM	1			
WALLS	PRECAST	1			
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

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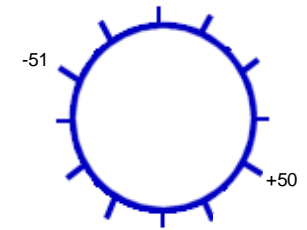
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	51.1	15' 01"	24	VCP	4	6.00	0			2	
OUT TO	52	15' 02"	24	RCP	4	6.00	0			1	

Flow Assessment Services, LLC. Structure Inspection Log

☐ Surface ☒ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 10:17

Manhole No.: 51.1
 Sub-System: N/A



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.3 = 2.7 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

275 Ft. to DS MH #: 51

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 20.38 In. Inside Frame Dia.: 23.75 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	1			
CORBEL	BRICK	1			
STEPS	NONE	0			
WALLS	BRICK	2			Very light roots
FLOOR	BRICK	2			Very light roots
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

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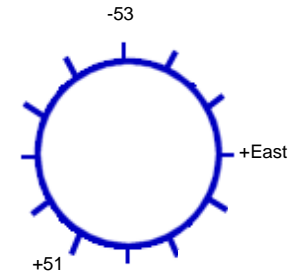
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	50	04' 05"	24	VCP	4	7.00	0			2	Very light roots at all joints except second joint which has moderate roots
OUT TO	51	04' 06"	24	VCP	4	7.00	0			1	Very light roots at all joints

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal

Municipality: Franklin, Ma
 Street: Pond Street Easement
 Inspection Date: 5/9/2013 Inspector: EM/RV Prefix #:
 Weather: CLEAR Temp: 0 Time: 11:50

Manhole No.: 52
 Sub-System: N/A



Ft. to DS MH #:

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 1.75 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 15 X 10 X 0.3 = 45.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 4 0.75

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: 27 In. Inside Frame Dia.: 31.25 In.

ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS
FRAME	CAST	2			3" offset
CORBEL	PRECAST	1			
STEPS	ALUM	1			
WALLS	PRECAST	1			
FLOOR	BRICK	1			
INVERT	BRICK	1			



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Franklin, MA 13040\Manhole Inspections\Franklin ,

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Line Comments
IN FRO	East	12' 05"	12	VCP	4	1.00	0			0	Inside drop
IN FRO	51	14' 07"	24	RCP	4	6.00	0			0	
OUT TO	53	14' 08"	24	RCP	4	6.00	0			0	

Flow Assessment Services, LLC. Structure Inspection Log										<input checked="" type="checkbox"/> Surface <input type="checkbox"/> Internal		 N							
Municipality:		Franklin, Ma						Manhole No.:		53									
Street:		Pond Street Easement						Sub-System:		N/A									
Inspection Date:		5/9/2013		Inspector:		EM/RV		Prefix #:											
Weather:		CLEAR		Temp:		0		Time:		8:07									
COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>				COVER INFLOW POTENTIAL Drainage Area 1: X X 0.3 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT)				<table style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">QTY</th> <th style="width: 30%;">SIZE (In)</th> </tr> <tr> <td>Holes In Cover</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </table>					QTY	SIZE (In)	Holes In Cover	--	--	Ft. to DS MH #:	
	QTY	SIZE (In)																	
Holes In Cover	--	--																	
General Comments:																			
INTERNAL MANHOLE OBSERVATIONS																			
										Clear Opening Dia.:			In.	Inside Frame Dia.:			In.		
ITEM	MATERIAL	CONDITION	Leaks (gpm)	Photo	DEFECTS														
FRAME		0																	
CORBEL		0																	
STEPS		0																	
WALLS		0																	
FLOOR		0																	
INVERT		0																	
Surcharge From Invert:		NONE EVIDENT		Currently:			Feet	Marks To:			Feet								
LINE CONDITIONS																			
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Pipe Conn Leak (gpm)	Photo	Line Cond 1-5	Image Path: <div></div>								
Line Comments																			

Production Summary

Flow Assessment Services, LLC. Structural Inspection Log

Production Summary Report For: 13040

Sub-System	Municipality	Location	Log Date	Manhole	Length in Feet	To DS Manhole
INTERNAL INSPECTION						
N/A	Franklin, Ma	Cottage Street S.C. Rossi Automotive	05/09/13	1A	23	2
N/A	Franklin, Ma	Cottage Street at Saxon Street	05/09/13	4	201	5
N/A	Franklin, Ma	Saxon Street Easement In rear of Fran	05/09/13	7		
N/A	Franklin, MA	24 Hayward Street	05/10/13	17	185	18
N/A	Franklin, MA	Hayward Street R.O.W.	05/08/13	22	242	23
N/A	Franklin, MA	Hayward Street Easement	05/09/13	23	175	24
N/A	Franklin, MA	Hayward Street Easement	05/09/13	24	178	25
N/A	Franklin, MA	Hayward Street Easement	05/09/13	25	167	26
N/A	Franklin, MA	Hayward Street Easement	05/09/13	26	117	27
N/A	Franklin, MA	Beaver Street R.O.W.	05/08/13	30		
N/A	Franklin, MA	Beaver Street R.O.W.	05/08/13	32	120	33
N/A	Franklin, MA	Beaver Street R.O.W.	05/08/13	33		
N/A	Franklin, MA	Beaver Street R.O.W.	05/09/13	34		
N/A	Franklin, MA	Beaver Street R.O.W.	05/10/13	36	430	37
N/A	Franklin, MA	Beaver Street R.O.W.	05/10/13	37	210	38
N/A	Franklin, MA	Beaver Street	05/10/13	38	160	37
N/A	Franklin, MA	Beaver Street R.O.W.	05/10/13	39	200	40
N/A	Franklin, MA	Beaver Street R.O.W.	05/10/13	40	60	40A
N/A	Franklin, MA	Beaver Street R.O.W.	05/09/13	40A	59	41
N/A	Franklin, MA	Beaver Street R.O.W. At railroad track	05/09/13	41	270	42
N/A	Franklin, MA	Beaver Street R.O.W.	05/08/13	44		
N/A	Franklin, Ma	Pond Street Easement	05/09/13	48		
N/A	Franklin, Ma	Pond Street Easement	05/09/13	50	170	51
N/A	Franklin, Ma	Pond Street Easement	05/09/13	51		
N/A	Franklin, Ma	Pond Street Easement	05/09/13	51.1	275	51

Manholes Logged for sub-system: N/A 25

Total INTERNAL INSPECTION 25

INSPECTED FROM SURFACE

N/A	Franklin, Ma	Cottage Street S.C. Rossi Automotive	05/09/13	1	13	1A
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Flow Assessment Services, LLC. Structural Inspection Log

Production Summary Report For: 13040

Sub-System	Municipality	Location	Log Date	Manhole	Length in Feet	To DS Manhole
N/A	Franklin, Ma	Cottage Street at Union Street	05/09/13	2	202	3
N/A	Franklin, Ma	Cottage Street Front of Aubuchon Hard	05/09/13	3	212	46
N/A	Franklin, Ma	Saxon Street	05/09/13	5	151	6
N/A	Franklin, Ma	Saxon Street Easement In front of Fra	05/09/13	6	171	7
N/A	Franklin, MA	Cottage Street R.O.W.	05/10/13	8		
N/A	Franklin, Ma	Fisher Street Easement	05/10/13	9		
N/A	Franklin, MA	Cottage Street R.O.W.	05/10/13	10	172	11
N/A	Franklin, MA	Fisher Street at Sugarbeet Road	05/10/13	11	192	12
N/A	Franklin, MA	131 Fisher Street	05/10/13	12	193	13
N/A	Franklin, MA	129 Fisher Street	05/10/13	13	188	14
N/A	Franklin, MA	121 Fisher Street	05/10/13	14	180	15
N/A	Franklin, MA	Hayward Street at Fisher Street	05/10/13	15	176	16
N/A	Franklin, MA	14 Hayward Street	05/10/13	16	177	17
N/A	Franklin, MA	42 Hayward Street	05/10/13	18	186	19
N/A	Franklin, MA	42 Hayward Street	05/09/13	19	185	20
N/A	Franklin, MA	31 Hayward Street	05/09/13	20	190	21
N/A	Franklin, MA	31 Hayward Street (lawn)	05/09/13	21	193	22
N/A	Franklin, MA	Master Drive	05/09/13	27	175	28
N/A	Franklin, MA	Beaver Street at railroad crossing	05/09/13	29		
N/A	Franklin, MA	Beaver Street R.O.W.	05/08/13	31		
N/A	Franklin, MA	West Central Street R.O.W.	05/10/13	42	218	43
N/A	Franklin, MA	Franklin Plaza (rear)	05/09/13	43		
N/A	Franklin, MA	West Central Street R.O.W.	05/09/13	44A		
N/A	Franklin, Ma	Pond Street Easement	05/08/13	46	28	46A
N/A	Franklin, Ma	Pond Street Easement	05/08/13	46A		
N/A	Franklin, Ma	Pond Street Easement	05/08/13	47		
N/A	Franklin, Ma	Pond Street Easement	05/09/13	47A	97	47
N/A	Franklin, Ma	Pond Street Easement	05/09/13	49		

Flow Assessment Services, LLC. Structural Inspection Log
Production Summary Report For: 13040

Sub-System	Municipality	Location	Log Date	Manhole	Length in Feet	To DS Manhole
N/A	Franklin, Ma	Pond Street Easement	05/09/13	52		

Manholes Logged for sub-system: N/A 30

Total INSPECTED FROM SURFACE 30

Total Manholes Logged: 55

Flow Assessment Services, LLC. Structural Inspection Log

Production Summary Report For: 13040

Sub-System	Municipality	Location	Log Date	Manhole	Length in Feet	To DS Manhole
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COULD NOT LOCATE

N/A	Franklin, MA	Master Drive R.O.W.	05/09/13	28		
N/A	Franklin, MA	Beaver Street R.O.W.	05/09/13	35		
N/A	Franklin, MA	Pond Street R.O.W.	05/08/13	45		
N/A	Franklin, Ma	Pond Street Easement	05/09/13	53		

Manholes Logged as: COULD NOT LOCATE 4

Manholes Attempted but not inspected for sub-system: N/A 4

Total Manholes attempted but not inspected: 4

Grand Total of all manhole logs: 59