Т	A B	C D	E F	G H	П	K L	IMI N	O P
H	Al B I	ci n i	El L I		W 16-xxx	KI L	M N	O P
2					WATER WORKS,	INC.		
3 4 5 6 7					E OF WICA INVE			
4					TRUCTION YEA			
5			and PRO	DJECTED CONST	TRUCTION YEAR	RS 2016- 2018		
7								
8	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(9)
9	(1)	(2)	(5)	(+)	(3)	(0)	(7)	(8)
10								
11	2013 1		Actua	I Investment (DW	13-358)		Depreciat	ion Expense
12					,			
13								
14		Gross	Cost of			Net	Depreciation	Depreciation
15		Investment	Removal	Book Cost	Retirement	Investment	Rate ⁷	Expense
16				(2) - (3)		(4) - (5)		(6) x (7)
17	Mains	\$ 1,563,037	\$ (156,234)	\$ 1,406,803	\$ (14,422)	\$ 1,392,381	1.60%	\$ 22,278
18	Contingency	20.205	(0.000)	20.555	141		1.60%	
19 20	Paving	28,395	(2,839)	25,556	(0.000)	25,556	1.57%	401
21	Hydrants Services	59,164 241,199	(5,063) (22,980)	54,101 218,219	(2,293) (6,924)	51,808 211,295	2.24%	1,160
22	Valves	69,084	(6,908)	62,176	(2,174)	60,002	2.34% 1.60%	4,944 960
23	Total	\$ 1,960,879	\$ (194,024)	\$ 1,766,855	\$ (25,813)	\$ 1,741,042	1.00%	\$ 29,744
24			(171,021)	-,,,,,,,,,	(25,015)	V 13/113972	ŧ	27,777
24 25								
26		31						
27								
28	2014 ²		Actua	l Investment (DW	15-043)		Depreciat	ion Expense
29								
20								*
20								
28 29 30 31		Gross	Cost of			Net	Depreciation	Depreciation
31 32		Gross Investment	Cost of Removal 8	Book Cost	Retirement	Net Investment	Depreciation Rate ⁷	Depreciation Expense
32 33			Removal 8	(2) - (3)	Retirement			
32 33 34	Mains				Retirement	Investment	Rate 7	Expense
32 33 34 35	Contingency	Investment	Removal 8	(2) - (3)	-	(4) - (5)	Rate 7 1.60% 1.60%	Expense (6) x (7)
32 33 34 35 36	Contingency Paving	\$ 2,744,191	(273,203)	(2) - (3) \$ 2,470,988	\$ -	Investment	Rate 7 1.60% 1.60% 1.57%	Expense (6) x (7) \$ 39,536
32 33 34 35 36 37	Contingency Paving Hydrants	\$ 2,744,191 - 35,249	(273,203) (3,525)	(2) - (3) \$ 2,470,988 - - 31,724	\$ (215)	Investment (4) - (5) \$ 2,470,988 - - 31,509	1.60% 1.60% 1.57% 2.24%	Expense (6) × (7) \$ 39,536
32 33 34 35 36 37 38	Contingency Paving Hydrants Services	\$ 2,744,191 - 35,249 82,444	(273,203) (3,525) (8,244)	(2) - (3) \$ 2,470,988 31,724 74,200	\$ - (215) (1)	Investment (4) - (5) \$ 2,470,988 - - 31,509 74,199	1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 - 706 1,736
32 33 34 35 36 37 38 39	Contingency Paving Hydrants Services Valves	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028	\$ - (215) (1) (538)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	1.60% 1.60% 1.57% 2.24%	Expense (6) x (7) \$ 39,536 - 706 1,736 136
32 33 34 35 36 37 38 39 40	Contingency Paving Hydrants Services	\$ 2,744,191 - 35,249 82,444	(273,203) (3,525) (8,244)	(2) - (3) \$ 2,470,988 31,724 74,200	\$ - (215) (1)	Investment (4) - (5) \$ 2,470,988 - - 31,509 74,199	1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 - 706 1,736
32 33 34 35 36 37 38 39 40 41	Contingency Paving Hydrants Services Valves	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028	\$ - (215) (1) (538)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 - 706 1,736 136
32 33 34 35 36 37 38 39 40 41	Contingency Paving Hydrants Services Valves	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028	\$ - (215) (1) (538)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 - 706 1,736 136
32 33 34 35 36 37 38 39 40 41 42 43 44	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028	\$ - (215) (1) (538)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 - 706 1,736 136
32 33 34 35 36 37 38 39 40 41 42 43 44 45	Contingency Paving Hydrants Services Valves	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 39,536 - 706 1,736 136
32 33 34 35 36 37 38 39 40 41 42 43 44 45	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (273,203) (3,525) (8,244) (1,003)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114
32 33 34 35 36 37 38 39 40 41 42 43 44 45	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 35,249 \$2,444 10,031 \$ 2,871,915	(273,203) (3,525) (8,244) (1,003) (285,975)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490 \$ 2,585,186	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 39,536
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 35,249 \$2,444 10,031	(273,203) (3,525) (8,244) (1,003) (285,975)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988 - 31,509 74,199 8,490	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense Depreciation
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 35,249 \$2,444 10,031 \$ 2,871,915	(273,203) (3,525) (8,244) (1,003) (285,975)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 Depreciation Expense
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Contingency Paving Hydrants Services Valves Total	\$ 2,744,191 \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915	(273,203) (3,525) (8,244) (1,003) (285,975) Cost of Removal 8	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen Book Cost (2) - (3)	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense Depreciation Expense (6) x (7)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Contingency Paving Hydrants Services Valves Total 2015 3	\$ 2,744,191 \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915	(273,203) (3,525) (8,244) (1,003) (285,975)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473	\$ - (215) (1) (538) \$ (754)	Investment (4) - (5) \$ 2,470,988	Rate 7	Expense (6) x (7) \$ 39,536
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Contingency Paving Hydrants Services Valves Total 2015 3 Mains Contingency	\$ 2,744,191 \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415	Cost of Removal 8 Cost of Removal 8 (3,525) (8,244) (1,003) (285,975)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473	\$ - (215) (1) (538) \$ (754)	Net Investment (4) - (5) \$ 2,470,988	1.60%	Expense (6) x (7) \$ 39,536 -706 1,736 136 \$ 42,114 ion Expense (6) x (7) \$ 45,098 \$ -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Contingency Paving Hydrants Services Valves Total 2015 3 Mains Contingency Paving	Section Sect	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) Cost of Removal 8 \$ (308,941) (4,444)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ 39,993	\$ - (215) (1) (538) \$ (754)	Net Investment (4) - (5) \$ 2,470,988	1.60% 1.60% 1.60% 1.60% 1.60% 1.60% 1.60% 1.60% 1.60% 1.60% 1.57% 1.60% 1.57% 1.57%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense (6) x (7) \$ 45,098 \$ - \$ 628
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Contingency Paving Hydrants Services Valves Total 2015 ³ Mains Contingency Paving Hydrants	Gross Investment \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415 44,436 76,976	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) Cost of Removal 8 \$ (308,941) (4,444) (7,698)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ 39,993 \$ 69,278	\$	Net Investment (4) - (5) \$ 2,470,988	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.60% 1.57% 2.24%	Expense (6) x (7) \$ 39,536
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Contingency Paving Hydrants Services Valves Total 2015 ³ Mains Contingency Paving Hydrants Services	Gross Investment \$ 3,089,415 44,436 76,976 76,496	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) (285,975) (4,444) (7,698) (7,650)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ 39,993 \$ 69,278 \$ 68,846	\$	Net Investment (4) - (5) \$ 2,470,988	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense (6) x (7) \$ 45,098 \$ - \$ \$ 628 \$ 1,765 \$ 1,672
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Contingency Paving Hydrants Services Valves Total 2015 3 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415 44,436 76,976 76,496 10,558	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) (308,941) (4,444) (7,698) (7,650) (1,056)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ - \$ 39,993 \$ 69,278 \$ 68,846 \$ 9,502	\$ - (215) (1) (538) \$ (754) Retirement \$ 38,121	Net Investment (4) - (5) \$ 2,470,988 31,509 74,199 8,490 \$ 2,585,186 Net Investment (4) - (5) \$ 2,818,594 39,993 78,795 71,473 12,497	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.60% 1.57% 2.24%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense (b) x (7) \$ 45,098 \$ 45,098 \$ 1,765 \$ 1,672 \$ 200
32 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 55 55 55 55	Contingency Paving Hydrants Services Valves Total 2015 ³ Mains Contingency Paving Hydrants Services	Gross Investment \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415 44,436 76,976 76,496 10,558	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) (285,975) (4,444) (7,698) (7,650)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ 39,993 \$ 69,278 \$ 68,846	\$	Net Investment (4) - (5) \$ 2,470,988	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense (6) x (7) \$ 45,098 \$ - \$ \$ 628 \$ 1,765 \$ 1,672
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 55 55 55 55 55 55 55 55 55	Contingency Paving Hydrants Services Valves Total 2015 3 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415 44,436 76,976 76,496 10,558	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) (308,941) (4,444) (7,698) (7,650) (1,056)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ - \$ 39,993 \$ 69,278 \$ 68,846 \$ 9,502	\$ - (215) (1) (538) \$ (754) Retirement \$ 38,121	Net Investment (4) - (5) \$ 2,470,988 31,509 74,199 8,490 \$ 2,585,186 Net Investment (4) - (5) \$ 2,818,594 39,993 78,795 71,473 12,497	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536 706 1,736 136 \$ 42,114 ion Expense (b) x (7) \$ 45,098 \$ 45,098 \$ 1,765 \$ 1,672 \$ 200
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	Contingency Paving Hydrants Services Valves Total 2015 3 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 2,744,191 35,249 82,444 10,031 \$ 2,871,915 Gross Investment \$ 3,089,415 44,436 76,976 76,496 10,558	Cost of Removal 8 (273,203) (3,525) (8,244) (1,003) \$ (285,975) (308,941) (4,444) (7,698) (7,650) (1,056)	(2) - (3) \$ 2,470,988 31,724 74,200 9,028 \$ 2,585,940 Actual Investmen (2) - (3) \$ 2,780,473 \$ - \$ 39,993 \$ 69,278 \$ 68,846 \$ 9,502	\$ - (215) (1) (538) \$ (754) Retirement \$ 38,121	Net Investment (4) - (5) \$ 2,470,988 31,509 74,199 8,490 \$ 2,585,186 Net Investment (4) - (5) \$ 2,818,594 39,993 78,795 71,473 12,497	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 39,536

	A B	C D	E F	G H	I J	K L	M N	O P Q
1				DV	V 16-xxx			
2				PENNICHUCK V	ATER WORKS,	INC.		
3			SUMN	ARY SCHEDUL				
4				MPLETED CONS				
				DJECTED CONST				
4 5 6 7 8 9 61			and r KC	MECTED CONST	RUCTION TEAR	2010-2018		
0								
1								
8	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9								
61								
62	2016 4		1	Projected Investme	t		Donwasias	ion Expense
62 63	2010		,	rojected investine	nt		Depreciat	ion Expense
63							Ė	
64 65		_						
65		Gross	Cost of			Net	Depreciation	Depreciation
66		Investment	Removal 8	Book Cost	Retirement	Investment	Rate 7	Expense
67				(2) - (3)		(4) - (5)		(6) x (7)
68	Mains	\$ 4,188,000	\$ (418,800)	\$ 3,769,200	\$ -	\$ 3,769,200	1.60%	\$ 60,307
69	Contingency	418,800	(41,880)	376,920	*		1.60%	2000
70						376,920	¢.	6,031
70	Paving	292,330	(29,233)	263,097	-	263,097	1.57%	4,131
71	Hydrants	40,752	(4,075)	36,677	=	36,677	2.24%	822
72	Services	64,077	(6,408)	57,669	2	57,669	2.34%	1,349
73	Valves	14,784	(1,478)	13,306		13,306	1.60%	213
74	Total	\$ 5,018,743	\$ (501,874)	\$ 4,516,869	\$	\$ 4,516,869	i	\$ 72,852
75						S	5.	
76								
77								
78								
70	2017 5			handa akad Ta				
79 80	2017		1	Projected Investme	nt		Depreciat	ion Expense
80								
81								
82		Gross	Cost of			Net	Depreciation	Depreciation
83		Investment	Removal ⁸	Book Cost	Retirement	Investment	Rate 7	Expense
84		2117001110110		(2) - (3)	Actionione	(4) - (5)		(6) x (7)
84 85	Mains	\$ 4,493,000	\$ (449,300)		\$ -		1.60%	
0.5			, , ,	, , ,	3	.,,	i	\$ 64,699
86	Contingency	449,300	(44,930)	404,370	-	404,370	1.60%	\$ 6,470
87	Paving	250,000	(25,000)	225,000	·	225,000	1.57%	\$ 3,533
88	Hydrants	40,752	(4,075)	36,677	-	36,677	2.24%	\$ 822 !
		.0,.52	(1,070)	1			,	- P
89	Services	64,077	(6,408)	57,669	-	57,669	2.34%	
	Services Valves	64,077	(6,408)	57,669		57,669	2.34%	\$ 1,349
90		64,077 14,784	(6,408) (1,478)	57,669 13,306_	-	57,669 13,306	1	\$ 1,349 \$ 213
90 91	Valves	64,077	(6,408) (1,478)	57,669 13,306	\$ -	57,669 13,306	2.34%	\$ 1,349
90 91 92	Valves	64,077 14,784	(6,408) (1,478)	57,669 13,306_	\$	57,669 13,306	2.34%	\$ 1,349 \$ 213
90 91 92 93	Valves	64,077 14,784	(6,408) (1,478)	57,669 13,306_	\$ -	57,669 13,306	2.34%	\$ 1,349 \$ 213
90 91 92 93 94	Valves	64,077 14,784	(6,408) (1,478)	57,669 13,306_	\$	57,669 13,306	2.34%	\$ 1,349 \$ 213
90 91 92 93 94 95	Valves Total	64,077 14,784	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722		57,669 13,306	2.34%	\$ 1,349 \$ 213 \$ 77,086
90 91 92 93 94 95	Valves	64,077 14,784	(6,408) (1,478) \$ (531,191)	57,669 13,306_		57,669 13,306	2.34%	\$ 1,349 \$ 213
90 91 92 93 94 95 96 97	Valves Total	64,077 14,784	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722		57,669 13,306	2.34%	\$ 1,349 \$ 213 \$ 77,086
90 91 92 93 94 95 96 97 98	Valves Total	64,077 14,784	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722		57,669 13,306	2.34%	\$ 1,349 \$ 213 \$ 77,086
90 91 92 93 94 95 96 97 98	Valves Total	64,077 14,784	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722		57,669 13,306 \$ 4,780,722	2.34% 1.60%	\$ 1,349 \$ 213 \$ 77,086
90 91 92 93 94 95 96 97 98 99	Valves Total	64,077 14,784 \$ 5,311,913	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722	nt	57,669 13,306 \$ 4,780,722	2.34% 1.60% Depreciation	\$ 1,349 \$ 213 \$ 77,086
90 91 92 93 94 95 96 97 98 99	Valves Total	64,077 14,784 \$ 5,311,913	(6,408) (1,478) \$ (531,191)	57,669 13,306 \$ 4,780,722 Projected Investme		57,669 13,306 \$ 4,780,722 Net Investment	2.34% 1.60%	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense
90 91 92 93 94 95 96 97 98 99 100 101	Valves Total	64,077 14,784 \$ 5,311,913 Gross Investment	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸	57,669 13,306 \$ 4,780,722 Projected Investme Book Cost (2) - (3)	nt Retirement	57,669 13,306 \$ 4,780,722 Net Investment (4) - (5)	2.34% 1.60% Depreciation Rate 7	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7)
90 91 92 93 94 95 96 97 98 99 100 101 102	Valves Total 2018 6	64,077 14,784 \$ 5,311,913 Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000)	57,669 13,306 \$ 4,780,722 Projected Investme Book Cost (2) - (3) \$ 4,941,000	nt	57,669 13,306 \$ 4,780,722 Net Investment (4) - (5) \$ 4,941,000	Depreciation Rate 7	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7) \$ 79,056
90 91 92 93 94 95 96 97 98 99 100 101 102 103	Valves Total 2018 6 Mains Contingency	Gross Investment \$ 5,490,000 549,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900)	57,669 13,306 \$ 4,780,722 Projected Investme (2) - (3) \$ 4,941,000 494,100	nt Retirement	Net Investment (4) - (5) \$ 4,941,000 494,100	Depreciation Rate 7 1.60%	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7) \$ 79,056 \$ 7,906
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Valves Total 2018 6	64,077 14,784 \$ 5,311,913 Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000)	57,669 13,306 \$ 4,780,722 Projected Investme Book Cost (2) - (3) \$ 4,941,000	nt Retirement	57,669 13,306 \$ 4,780,722 Net Investment (4) - (5) \$ 4,941,000	Depreciation Rate 7	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7) \$ 79,056
90 91 92 93 94 95 96 97 98 99 100 101 102 103	Valves Total 2018 6 Mains Contingency	Gross Investment \$ 5,490,000 549,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900)	57,669 13,306 \$ 4,780,722 Projected Investme (2) - (3) \$ 4,941,000 494,100	nt Retirement	Net Investment (4) - (5) \$ 4,941,000 494,100	Depreciation Rate 7 1.60%	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7) \$ 79,056 \$ 7,906
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Valves Total 2018 6 Mains Contingency Paving	Gross Investment \$ 5,490,000 549,000 250,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075)	57,669 13,306 \$ 4,780,722 Projected Investme (2) - (3) \$ 4,941,000 494,100 225,000 36,677	nt Retirement	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677	Depreciation Rate 7 1.60% 1.60% 1.60% 1.57%	\$ 1,349 \$ 213 \$ 77,086 ion Expense Depreciation Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	Valves Total 2018 6 Mains Contingency Paving Hydrants Services	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408)	57,669 13,306 \$ 4,780,722 Projected Investment Book Cost (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669	nt Retirement	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669	Depreciation Rate 7 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 2.34% 1.60% 1.60% 2.24%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	Valves Total 2018 6 Mains Contingency Paving Hydrants Services	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408)	57,669 13,306 \$ 4,780,722 Projected Investment Book Cost (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669	nt Retirement	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	Valves Total 2018 ⁶ Mains Contingency Paving Hydrants Services Valves Total	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 111	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total	Gross Investment \$ 5,490,000 250,000 40,752 64,077 14,784 \$ 6,408,613	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total	Gross Investment \$ 5,490,000 250,000 40,752 64,077 14,784 \$ 6,408,613	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total	Gross Investment \$ 5,490,000 250,000 40,752 64,077 14,784 \$ 6,408,613	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861)	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) a DW 13-358. a DW 15-043.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) a DW 13-358. a DW 15-043.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 1112 113 114 115 116	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. DW 15-043. of 4.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att Based on Att Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal ⁸ \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. a DW 15-043. of 4. of 4.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att Based on Att Based on Att Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal 8 \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. a DW 15-043. of 4. of 4. of 4.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	Retirement \$ -	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att Based on Att Based on Att Based on Att	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal 8 \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. a DW 15-043. of 4. of 4. of 4.	57,669 13,306 \$ 4,780,722 Projected Investment (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	Retirement \$ -	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 \$ 77,086 \$ 000 Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on PW Based on Att Based on Att Based on Att Based on Att The Deprecia	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal 8 \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) a DW 13-358. a DW 15-043. of 4. of 4. of 4. d on the depreciation	57,669 13,306 \$ 4,780,722 Projected Investme Book Cost (2) - (3) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34% 1.60%	\$ 1,349 \$ 213 \$ 77,086 ion Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213 \$ 92,878
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on Att The Deprecia The Cost of	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal 8 \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. a DW 15-043. of 4. of 4. of 4. of 4.	57,669 13,306 \$ 4,780,722 Projected Investme (2) - (3) \$ 4,941,000 225,000 36,677 57,669 13,306 \$ 5,767,752	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	Depreciation Rate 7 1.60% 1.60% 1.60% 1.60% 2.24% 2.34%	\$ 1,349 \$ 213 \$ 77,086 ion Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213 \$ 92,878
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121	Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves Total Notes: Based on PW Based on Att The Deprecia The Cost of	Gross Investment \$ 5,490,000	(6,408) (1,478) \$ (531,191) Cost of Removal 8 \$ (549,000) (54,900) (25,000) (4,075) (6,408) (1,478) \$ (640,861) DW 13-358. a DW 15-043. of 4. of 4. of 4. of 4.	57,669 13,306 \$ 4,780,722 Projected Investme (2) - (3) \$ 4,941,000 225,000 36,677 57,669 13,306 \$ 5,767,752	Retirement \$	Net Investment (4) - (5) \$ 4,941,000 494,100 225,000 36,677 57,669 13,306 \$ 5,767,752	2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34% 1.60%	\$ 1,349 \$ 213 \$ 77,086 ion Expense (6) x (7) \$ 79,056 \$ 7,906 \$ 3,533 \$ 822 \$ 1,349 \$ 213 \$ 92,878

	A	вТ	С	b	Е	IF	G	TH .	
1			l6-xxx	М	L	111		р4	
2	PENNICHUCK	WA	TER WOR	KS, IN	C.				
3	PROJECTED CALCULAT	ION	OF 2016 V	VICA S	SURCHARO	Æ			
4	FOR COMPLETED COM	ISTF	RUCTION	ÆAR!	S 2013 - 2015	5			
5 6 7									
6									
7									
8					Actual			_	
10			2013		2014		2015		T-4-1
	Plant in Service:	-	2013	-, ;	2014		2015		Total
	Gross Plant Investment (Att A; Sch 1; Col (2))	\$	1,960,87	8	2,871,915	\$	3,297,881	\$	8,130,675
	Less: Cost of Removal (Att A; Sch 1; Col (3))	4	(194,024		(285,975)		(329,788))	(809,788)
	Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,81		(754		53,259		26,692
15	Net Plant Investment		1,741,042		2,585,186		3,021,352	500	7,347,580
16									
	Accumulated Depreciation:								
18	Depreciation Expense ¹ (Att A; Sch 1; Col (8)):								
$\overline{}$	2013 Net Plant Investment		14,872	<u>)</u>	29,744		29,744		74,360
-	2014 Net Plant Investment		9		21,057		42,114		63,171
$\overline{}$	2015 Net Plant Investment					_	24,681		24,681
	Total Depreciation Expense		14,872		50,801		96,539		162,212
_	Less: Cost of Removal (Att A; Sch 1; Col (3))		(194,024		(285,975)		(329,788))	(809,788)
	Less: Plant Retirements (Att A; Sch 1; Col (5)) Net Accumulated Depreciation	::	(25,813		(754)		53,259		26,692 (620,883)
26	Net Accumulated Depreciation	_	(204,90.		(233,928)	-	(1/9,909)	_	(020,003)
	Net Plant in Service	\$	1,946,003	, \$	2,821,114	\$	3,201,342	\$	7,968,463
-	Pre-tax Rate of Return ²		1,2 (0,00	_ =	2,021,111	· <u> </u>	5,201,512		
-	Return on Investment							x	6.17% 491,518
30	actura on anyestment							Ψ.	771,310
=	Property Tax Expense ³	a),	\$28.50) ner	\$1,000				227,818
32	Topolity Tax Expense	9	Ψ20.0.	per	ψ1,000			_	227,010
	Annual Depreciation Expense (Att A; Sch 1; Col (8)):								
$\overline{}$	2013 Net Plant Investment								29,744
35	2014 Net Plant Investment								42,114
-	2015 Net Plant Investment								49,363
	Total Annual Depreciation Expense							_	121,221
38	2016								
	2016 Cumulative Revenue Requirement							\$	840,557
	Less: 2015 Cumulative Revenue Requirement 4							ф.	(500,198)
-	2016 Revenue Requirement							\$	340,358
42	DW 12 120 5								0.000000000
$\overline{}$	Water Revenues per DW 13-130 ⁵							\$	27,689,214
44									
45	2016 Revenue Surcharge %								1.220/
	2016 Cumulative Revenue Surcharge %							-	1.23% 3.04%
48	2010 Cumulative Revenue Burenuige 70							_	3.04 /0
49									
=	Customer Impact:								
-	5/8 Inch Meter Monthly Charge							\$	20.34
-	Volumetric Charge							\$	3.30
	Average Single Family Residential Usage (CCF)								7.88
	Average Monthly Usage Charge							\$	26.00
-	Total Average Monthly Charge							_\$	46.34
56									
_	Average Monthly \$ Impact per Customer of 2016 Surcharge	1						\$	0.57
$\overline{}$	Average Monthly \$ Impact per Customer of 2016 Cumulative Su	rchai	rge						1.41
59 60	Notes:							_	
\neg		,	. 1	C C 1					
61 62	The half-year convention for depreciation expense is employed		-	of the	annual depr	eciatio	on		
_	expense is recorded in the first and last year of an asset's service			201					
63	Calculation of Pre-Tax Rate of Return (Based on PWW's Rate I				w Market 11	-	To C	1	
64	Debt	_ W	eighted Cos 5.59%		x Multiplier 1.000	- P	re Tax Cost 5.59%		
_	Equity		0.359		1.656		0.58%		
67	dA	-	5.949		1.030		6.17%	1	
68	City of Nashua 2015 Mill Rate of \$21.99 and State Utility Prop	ertv '		-			0.1170		
69	Attachment A; Schedule 2a	J. • J		- 0.00.					
70	Base rate revenue requirement approved in DW 13-130 by Com		ion O-do- N	251	02 (7/15/14)				
/ V I	Dase rate revenue requirement approved in DW 15-150 by Con	1111122	non Order N	0. 43,0	173 (1/13/14)				

A	3	С	d	Е	F	G	Н	1	J K	(
1		DW 16-xx					77.7			
2		ICK WATER			CHA	DCF				
FOR COMPLET										
5 and PROJE				ION YEAR 2		20.77				
6										
7										
8	_			Actual			Pr	ojected		
9		2012		2014		2015		2016		Villa II
11 Plant in Service:	_	2013	-	2014	-	2015	-	2016	To	tai
12 Gross Plant Investment (Att A; Sch 1; Col (2))	S	1,960,879	\$	2,871,915	S	3,297,881	S	5,018,743	\$ 13,1	49 418
13 Less: Cost of Removal (Att A; Sch I; Col (3))	1367	(194,024)	5000	(285,975)	- 00	(329,788)	76.0	(501,874)		11,662)
14 Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,813)		(754)		53,259			550.5-0	26,692
15 Net Plant Investment	_	1,741,042	_	2,585,186		3,021,352		4,516,869	11,8	64,449
16										
Accumulated Depreciation										
18 Depreciation Expense ¹ (Att A; Sch 1; Col (8)): 19 2013 Net Plant Investment		1.4.000		20.744		20.744		20.744	140	
20 2014 Net Plant Investment		14,872		29,744		29,744 42,114		29,744 42,114		04,104
21 2015 Net Plant Investment				21,057		24,681		49,363		05,284 74,044
22 2016 Net Plant Investment		346 346				- 1,001		36,426		36,426
23 Total Depreciation Expense	_	14,872	_	50,801		96,539		157,647		19,859
24 Less: Cost of Removal (Att A; Sch 1; Col (3))		(194,024)		(285,975)		(329,788)		(501,874)		11,662)
25 Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,813)	_	(754)		53,259	_		-	26,692
26 Net Accumulated Depreciation		(204,965)		(235,928)	_	(179,989)	-	(344,228)	(9	65,110)
28 Net Plant in Service		1 046 007		2 021 114		2 201 242		4,861,096	6 120	20 550
- Contract C	3	1,946,007	<u>\$</u>	2,821,114		3,201,342	\$	4,801,090	\$ 12,8	
29 Pre-tax Rate of Return ² 30 Return on Investment								ž.		6.17%
31									\$ 7	91,365
32 Property Tax Expense ³		\$28.59		1.000					2	66,797
33	80	320.39	per a	11,000						00,797
34 Annual Depreciation Expense(Att A; Sch 1; Col (8)):										
35 2013 Net Plant Investment										29,744
36 2014 Net Plant Investment									,	42,114
37 2015 Net Plant Investment										49,363
38 2016 Net Plant Investment										72,852
39 Total Annual Depreciation Expense										94,073
41 2017 Cumulative Revenue Requirement									\$ 1.3	52,235
42 Less: 2016 Cumulative Revenue Requirement ⁴									- E	40,557)
43 2017 Revenue Requirement										11,678
44										
45 Water Revenues per DW 13-1305									\$ 27,6	89.214
46										
47										
48 2017 Revenue Surcharge %										1.85%
49 2017 Cumulative Revenue Surcharge %										4.88%
50										
51 S2 Customer Impact										
53 5/8 Inch Meter Monthly Charge									\$	20.34
54 Volumetric Charge									S	3.30
55 Average Single Family Residential Usage (CCF)									2	7.88
56 Average Monthly Usage Charge									S	26.00
57 Total Average Monthly Charge									S	46.34
58									· ·	27.22
59 Average Monthly \$ Impact per Customer of 2017 Surcharge									\$	0.86
60 Average Monthly \$ Impact per Customer of 2017 Cumulative Sur	charg	e							S	2.26
61 62 Naton										
62 Notes:	y a			603403030304004000000000	*0 Z*****					
63 The half-year convention for depreciation expense is employed w		by one-half o	the	annual deprec	ation	E				
expense is recorded in the first and last year of an asset's service		- DW 12 122	N.							
65 Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Fi	_			v Multiplier	D	o Toy Coat				
67 Debt	we	5.59%	_ 1a	x Multiplier 1.000	Pr	e Tax Cost 5.59%				
68 Equity		0.35%		1.656		0.58%				
69	-	5.94%				6.17%				
70 3 City of Nashua 2015 Mill Rate of \$21.99 and State Utility Prope	rty T	ax Rate of \$6.	60.							
71 4 Attachment A; Schedule 2b										
72 Base rate revenue requirement approved in DW 13-130 by Comn	nissic	on Order No.	25.69	3 (7/15/14).						

	K	Ц М
DW 16-xxx		•
PENNICHUCK WATER WORKS, INC.		
PROJECTED CALCULATION OF 2018 WICA SURCHARGE FOR COMPLETED CONSTRUCTION YEARS 2013 - 2015		
and PROJECTED CONSTRUCTION YEARS 2015 - 2017		
6		
7		
8 Actual Proj	ected	
9 2013 2014 2015 2016		
10 2013 2014 2015 2016 11 Plant Investment:	2017	Total
12 Gross Plant Investment (Art A; Sch 1; Col (2)) \$ 1,960,879 \$ 2,871,915 \$ 3,297,881 \$ 5,018,743	\$ 5,311,913	\$ 18,461,331
13 Less; Cost of Removal (Att A; Sch 1; Col (3)) (194,024) (285,975) (329,788) (501,874)	(531,191)	(1,842,853)
14 Less: Plant Retirements (Att A; Sch 1; Col (5)) (25,813) (754) 53,259		26,692
15 Net Plant Investment 1,741,042 2,585,186 3,021,352 4,516,869	4,780,722	16,645,170
16 17 Accumulated Depreciation:		
17 Accumulated Depreciation: 18 Depreciation Expense ¹ (Att A; Sch 1; Col (8)):		
18 Depreciation expense (Att A; Sch 1; Col (8)): 19 2013 Net Plant Investment 14,872 29,744 29,744 29,744	29,744	133,849
20 2014 Net Plant Investment - 21,057 42,114 42,114	42,114	147,398
21 2015 Net Plant Investment - 24,681 49,363	49,363	123,407
22 2016 Net Plant Investment - 36,426	72,852	109,279
23 2017 Net Plant Investment	38,543	38,543
24 Total Depreciation Expense 14,872 50,801 96,539 157,647	232,616	552,475
25 Less: Cost of Removal (Att A; Sch 1; Col (3)) (194,024) (285,975) (329,788) (501,874) 26 Less: Plant Retirements (Att A; Sch 1; Col (5)) (25,813) (754) 53,259 -	(531,191)	(1,842,853)
26 Less: Plant Retirements (Att A; Sch 1; Col (5)) (25,813) (754) 53,259 27 Net Accumulated Depreciation (204,965) (235,928) (179,989) (344,227)	(298,575)	(1,263,686)
28 (27),007 (17),007	(270,575)	(1,203,000)
29 Net Plant in Service \$ 1,946,007 \$ 2,821,114 \$ 3,201,342 \$ 4,861,096	\$ 5,079,297	\$ 17,908,856
30 Pre-tax Rate of Return ²		x 6.17%
31 Return on Investment		\$ 1,104,671
32		
33 Property Tax Expense ³ @ \$28.59 per \$1,000		512,014
34 36 A Marie Description Francisco (Atl A. C. A. I. O. A. (D.))		
35 Annual Depreciation Expense (Att A; Sch 1; Col (8)): 36 2013 Net Plant Investment		20.744
37 2014 Net Plant Investment		29,744 42,114
38 2015 Net Plant Investment		49,363
39 2016 Net Plant Investment		72,852
40 2017 Net Plant Investment		77,086
41 Total Annual Depreciation Expense		271,159
42 43 2018 Cumulative Revenue Requirement		\$ 1,887,843
44 Less: 2017 Cumulative Revenue Requirement ⁴		(1,352,235)
45 2018 Revenue Requirement		\$ 535,608
46		
47 Water Revenues per DW 13-130 ⁵		\$ 27,689,214
48		
49		
50 2018 Revenue Surcharge %		1.93%
51 2018 Cumulative Revenue Surcharge %		6.82%
52 53		
54 Customer Impact:		11
55 5/8 Inch Meter Monthly Charge		\$ 20.34
56 Volumetric Charge		\$ 3.30
57 Average Single Family Residential Usage (CCF)		7.88
58 Average Monthly Usage Charge 59 Total Average Monthly Charge		\$ 26.00
60 Constructing Charge		\$ 46.34
61 Average Monthly \$ Impact per Customer of 2018 Surcharge		\$ 0.90
62 Average Monthly \$ Impact per Customer of 2018 Cumulative Surcharge		\$ 3.16
63		
64 Notes:		
The half-year convention for depreciation expense is employed whereby one-half of the annual depreciation		
66 expense is recorded in the first and last year of an asset's service life.		
67 Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Filing in DW 13-130)		
68 Weighted Cost Tax Multiplier Pre Tax Cost 69 Debt 5.59% 1,000 5.59%		
70 Equity 0.35% 1.656 0.58%		
71 5.94% 6.17%		
72 3 City of Nashua 2015 Mill Rate of \$21.99 and State Utility Property Tax Rate of \$6.60.		
73 Attachment A; Schedule 2c		
THE PROPERTY OF THE PROPERTY O		

	A B	С	D	Е	F G	H	I].	J K	ц м	0
2		PEN	NICHI	DW 16-xx JCK WATER		C				
3	PR			LATION OF:			IARGE			
3 4 5 6 7				CONSTRUCT						
6		and PROJEC	TED C	ONSTRUCT	ON YEARS	2016 -	2018			
7										
8	,			Actual				Projected		
9		2013		2014	2015		2016	2017	2018	Total
11	Plant Investment:			2014	2013		2010			Total
12	Gross Plant Investment (Att A; Sch 1; Col (2))	\$ 1,960,8		2,871,915	\$ 3,297,8		\$ 5,018,743	\$ 5,311,913	\$ 6,408,613	\$ 24,869,944
13	Less: Cost of Removal (Att A; Sch 1; Col (3)) Less: Plant Retirements (Att A; Sch 1; Col (5))	(194,0 (25,8		(285,975)	(329,7		(501,874)	(531,191)	(640,861)	(2,483,714)
-	Net Plant Investment	1,741,0		(754) 2,585,186	53,2 3,021,3		4,516,869	4,780,722	5,767,752	26,692
16					-		,- ,,-			
	Accumulated Depreciation:									
19	Depreciation Expense ¹ (Att A; Sch 1; Col (8)): 2013 Net Plant Investment	14,8	72	29,744	29,7	744	29,744	29,744	29,744	163,593
20	2014 Net Plant Investment	14,0	-	21,057	42,1		42,114	42,114	42,114	189,512
	2015 Net Plant Investment		-	-	24,6	581	49,363	49,363	49,363	172,770
_	2016 Net Plant Investment 2017 Net Plant Investment		-	-		-	36,426	72,852	72,852	182,131
	2018 Net Plant Investment		-	-		-	-	38,543	77,086 46,439	115,628 46,439
	Total Depreciation Expense	14,8		50,801	96,5		157,647	232,616	271,159	823,634
26	Less: Cost of Removal (Att A; Sch 1; Col (3)) Less: Plant Retirements (Att A; Sch 1; Col (5))	(194,0) (25,8)		(285,975)	(329,7		(501,874)	(531,191)	(640,861)	(2,483,714)
28	Net Accumulated Depreciation	(204,9		(754)	(179,9		(344,227)	(298,575)	(369,703)	(1,633,388)
29	,									
30	Net Plant in Service	\$ 1,946,00	07\$	2,821,114	\$ 3,201,3	42	\$ 4,861,096	\$ 5,079,297	\$ 6,137,454	\$ 24,046,310
	Pre-tax Rate of Return ² Return on Investment								1	\$ 1,483,247
33	Acturn on investment									3 1,483,247
	Property Tax Expense ³ @	\$28.	59 per	\$1,000						687,484
35	Annual Depreciation Expense (Att A; Sch 1; Col (8)):									
	2013 Net Plant Investment									29,744
	2014 Net Plant Investment									42,114
	2015 Net Plant Investment								16	49,363
	2016 Net Plant Investment 2017 Net Plant Investment									72,852 77,086
42	2018 Net Plant Investment									92,878
43	Total Annual Depreciation Expense									271,159
-	2018 Cumulative Revenue Requirement									\$ 2,441,889
-	Less: 2017 Cumulative Revenue Requirement ⁴									(1,887,843)
-	2018 Revenue Requirement									\$ 554,046
48	60/77									
49	Water Revenues per DW 13-130 ⁵									\$ 27,689,214
50										
52	2018 Revenue Surcharge %									2.00%
-	2018 Cumulative Revenue Surcharge %									8.82%
54 55										
	Customer Impact:									
_	5/8 Inch Meter Monthly Charge									\$ 20.34
	Volumetric Charge Average Single Family Residential Usage (CCF)									\$ 3.30
	Average Single Family Residential Osage (CCF) Average Monthly Usage Charge									\$ 26.00
61	Total Average Monthly Charge									\$ 46.34
62 63	Average Monthly & Impact per Customer of 2019 Samples									
-	Average Monthly \$ Impact per Customer of 2018 Surcharge Average Monthly \$ Impact per Customer of 2018 Cumulative Surcha	arge								\$ 0.93 \$ 4.09
65	STO	-								
	Notes:				_					
67 68	The half-year convention for depreciation expense is employed who expense is recorded in the first and last year of an asset's service I		of the a	nnual deprecia	tion					
69	Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Filir		30)							
70	The state of restain pages on 1 if it a Mate I illi	Weighted Co		ax Multiplier	_Pre Tax Co	ost				
71	Debt	5.59	%	1.000	5.5	9%				
72	Equity	5.94		1.656	6.1	and the latest design of the l				
	3 City of Nashua 2015 Mill Rate of \$21.99 and State Utility Propert				0.1	. 70				
75	Attachment A; Schedule 2c									
76	Base rate revenue requirement approved in DW 13-130 by Commis	ssion Order N	o. 25,69	3 (7/15/14).						
										-

A	В	С	Þ	Е	F	G	H	I	J	K	IJ	М	N
1		DW 16-2					1110						
	NNICHU	JCK WATE	R WO	RKS, INC.									
				E CALCULA									
FOR APPROVED 2015 W							RGE						
and PROJ	ECTED	2017 - 2018	WIC	A SURCHAF	RGES								
and PROJ 7													
8	-	Actual	_	Actual				Proj	ected				
9													
0	-	2014		2015	_	2016		2017	_	2018	_	2019	
1													
2 SUMMARY OF CALCULATIONS (Att A; Sch's 2):													
3													
4 Annual Revenue Requirement	\$	181,151	\$	319,047	\$	340,358	<u>\$</u>	511,678	\$	535,608	_\$_	554,046	
Cumulative Revenue Requirement	\$	181,151	\$	500,198	\$	840,557	\$	1,352,235	\$	1,887,843	\$	2,441,889	
6													
7													
8 Annual Revenue Surcharge %		0.67%		1.15%		1.23%		1.85%	_	1.93%	_	2.00%	
9 Cumulative Revenue Surcharge %		0.67%		1.81%	_	3.04%	_	4.88%	_	6.82%	_	8.82%	
0													
1													
Annual Average Monthly \$ Impact per Customer	_\$_	0.31	\$	0.53	\$	0.57	\$	0.86	S	0.90	\$	0.93	
Cumulative Average Monthly \$ Impact per Customer	\$	0.31	\$	0.84	\$	1.41	\$	2.26	\$	3.16	\$	4.09	
4													
5													
5													
PER MOST RECENT APPROVED RATE FILING DW	15-043												
8													
Annual Revenue Requirement	\$	181,151	\$	319,047	\$	529,073	\$	543,192	\$	444,906			
Cumulative Revenue Requirement	\$	181,151	\$	500,198	\$	1,029,270	\$	1,572,463	\$	2,017,369			
			12.								-		
2													
Annual Revenue Surcharge %		0.67%		1.15%		1.91%		1.96%		1.61%			
Cumulative Revenue Surcharge %	8	0.67%		1.81%	1	3.72%		5.68%		7.29%			
											-		
5													
Annual Average Monthly \$ Impact per Customer	\$	0.31	\$	0.53	\$	0.89	\$	0.91	\$	0.74			
Cumulative Average Monthly \$ Impact per Customer	\$	0.31	\$	0.84	\$	1.72	\$	2.63	\$	3.38	-		
					_		=		_		-		

F G H Pennichuck Water Works, Inc. 2015 WICA Water Main Projects - Final Status Attachment R 1/11/2016 Page 1 of 4 Revised Estimated Estimated END OF YEAR 2015 ANTICIPATED FINAL Original WICA LENGTH as of LENGTH as of LENGTH as of LENGTH as of EXISTING PIPE PROPOSED NEW ORIGINAL WICA COSTS PAVING COST IN 2016 VORK ORDE filing LENGTH 3/30/2015 6/30/2015 9/30/2015 12/21/2015 DIAMETER PIPE DIAMETER FILING ESTIMATED ESTIMATED COST AS ESTIMATED COST AS FOR 2015 USED AND (color coded for same PIPE AGE FILLY PIPE SEGEMENT OR PROJECT NAME CITY/TOWN MATERIAL (FEET) (FEET) (FEET) (FEET) (INCHES) (INCHES) COST OF 3/31/2015 OF 6/30/2015 OF 9/30/2015 **USEFUL PROJECTS** AGE OF PIPE projects) USEFUL LIFE DEPREC EXPLANATION Chestnut Street (Lake to Loveli NASHUA CAST IRON UNLINED 1502509 735 735 735 735 314,000 12 314,000 314,000 \$ 297,375 236.617 \$53,000 1918-1924 Completed, Final Paving in 2016 est - \$53,000.00 Chestnut Street (Lovell to End) NASHUA 1502509 CAST IRON UNLINED 263 263 263 263 397 12 105,000 105,000 105,000 \$ 138,300 \$30,000 1918-1925 Completed, Final Paving in 2016 est - \$30,000.00 Lovell Street (Chestnut to Ash) NASHUA 1502510 CAST IRON UNLINED 420 420 420 420 400 185,000 \$ 185,000 \$ 185,000 \$ 141,350 S 234.726 \$31,000 1892-1898 70 YES Completed, Final Paving in 2016 est - \$31,000.00 Lovell Street (Ash to Pine) NASHUA 1502510 CAST IRON UNLINED 750 750 750 750 814 269,000 \$ 269,000 \$ 269,000 \$ 197 500 \$62,000 1924-1934 YES Completed, Final Paving in 2016 est - \$62,000.00 Lovell Street (Easterly of Chestnut to end) NASHIIA 1502510 GAVANIZED STEEL 187 187 303 1-1/4 48,000 S 48.000 \$ 48,000 \$ 77.000 \$23,000 1955 40 YES Completed, Final Paving in 2016 est - \$23,000.00 Ash Street (Lovell to End) NASHUA Due to conflict with gas and sewer water was changed from PVC to 1502514 CAST IRON UNLINED 190 190 190 190 342 4 & 1-1/2 62,000 62,000 \$ 62,000 \$ 96,600 \$ 61,596 \$27,000 1921 DIP &the cost of small diameter main was more than anticipated -Completed, Final paving in 2016 est - \$27,000.00 Rochette Avenue (Chestnut easterly) CEMENT LINED STEEL NASHUA 1502516 163 163 163 163 175 46,000 46,000 \$ 46,000 \$ 61,000 \$ 30.758 \$13,500 1952-1956 Completed, Final Paving in 2016 est - \$13,500.00 Marquis Avenue (Lovell southerly) NASHUA 1502517 CEMENT LINED STEEL 125 125 125 125 128 1-1/2 39,000 \$ 39,000 \$ 39.000 S 40.000 \$ 19,177 \$10,000 1945 YES Completed, Final Paving in 2016 est - \$10,000.00 Harbor Avenue (Allds northerly) NASHUA CAST IRON UNLINED 480 480 480 572 12 229,000 \$ 229,000 \$ 229,000 \$ 229,000 \$ 135,122 1888 70 YE5 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Foundry Street AMHERST 1500270 1.465 1,465 TRANSITE 1.465 1.465 1.199 209,000 \$ 209,000 \$ 209,000 \$ 200,000 \$ 233,322 1950 40 YE5 School Street AMHERST 1500270 TRANSITE 240 240 240 240 280 40,000 \$ 40,000 \$ 40.000 S 42.000 1950 40 YES Manchester Road (Bridge Crossing) Complete AMHERST 1501462 TRANSITE 300 300 880 880 486 176,000 \$ 176,000 \$ 300,000 \$ 300,000 \$ 317.860 1950 YES Complete Manchester Road (Bridge Crossing) AMHERST 1501462 TRANSITE 1950 40 YES Complete Manchester Road (Bridge Crossing) AMHERST 1501462 TRANSITE 1950 40 YES Complete Miami Street NASHUA **GAVANIZED STEEL** 427 148,000 148,000 1927 40 Deferred until 2018 by PWW YES Brook Street (Ash to Fulton) NASHIJA CAST IRON UNLINED 1,141 1,141 1,141 397.000 397.000 \$ 397,000 \$ 1887 - 1924 YES Deferred until 2018 by PWW Hamilton Street (Lake to Brook) NASHUA CAST IRON UNLINED 411 411 130,000 130,000 1910 - 194 YES Burritt Street (Lake to Brook) NASHUA CAST IRON UNLINED Deferred until 2018 by PWW 424 424 155,000 155,000 1897 - 1921 YES Deferred until 2018 by PWW Burritt Street (Brook St. southerly) NASHUA CAST IRON UNLINED 182 182 182 182 43,000 43,000 \$ 43,000 \$ 1941 YES Deferred until 2018 by PWW Ash Street (Lake to Lovell) MASHIIA CAST IRON UNLINED 166.000 166,000 1892 YES Deferred until 2018 by PWW Lake Street (Pine St. easterly) NASHUA CAST IRON UNLINED 154 154 154 113,000 \$ 113.000 S 113.000 YES Deferred until 2018 by PWW Mulberry Street NASHIJA 1500275 CAST IRON LINUINED 50 46,500 \$ 46.500 S 46,500 S 46.500 55,341 1932 70 YES Complete Ninth Street NASHUA 1500276 **GAVANIZED STEEL** 627 627 627 627 637 102,000 \$ 102,000 \$ 102,000 \$ 146,500 \$ 140,334 1952-1957 40 YES Complete Eldridge Street NASHUA 1500269 CAST IRON UNLINED 37 32,000 27.996 1952-1957 40 YES Complete Temple Street (Amory to E. Hollis St) NASHUA CAST IRON UNLINED 1,030 985 1,030 985 990 278.100 S 278,100 \$ 185,000 \$ 327,800 \$ 387,045 190B 70 YES City of Nashua extended the project to Commercial St but then Temple Street (Amory to Commercial St) 300 154,700 S 1908 71 posponed the work - we extended the project across the RR tracks in NASHUA CAST IRON UNLINED anticipation of the continuation in 2016 Fairmount Street NASHUA CAST IRON UNLINED 215 215 215 215 211 57.000 \$ 57,000 \$ 57,000 \$ 57,000 \$ 70,325 1887 70 YES Alds Street (Main to Harbor), parallels 16" CI NASHUA 1501836 1,722 1,722 1,722 1,722 1,722 Abandon 123,000 \$ 123,000 123,000 9 123,000 \$ 885,949 1931 70 YES Complete Alds Street (Main to Harbor, exclusive of bridge crossing) NASHUA 1501836 TRANSITE 962 962 962 962 624 12 16 324,000 324,000 324,000 \$ 324,000 1961 NO 85 Complete Alds Street (Main to Harbor, exclusive of bridge crossing) NASHUA 1501836 TRANSITE 59 1961 NO Complete Alds Street - Salmon Brook Crossing MASHIIA 1501836 TRANSITE 760 534 12 20 425.000 425,000 425,000 \$ 425,000 1961 20" HDPE - Complete 85 NO Alds Street - Salmon Brook Crossing NASHUA 1501836 TRANSITE 12 1961 NO 16" DIPCL - Complete 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Kinsley Street NASHUA 1502868 CAST IRON UNLINED 42 42 47 12 101,174 80,000 \$ 146,250 \$2,000 1932 70 YES Completed, Final Paving in 2016 est - \$2000,00 Howard Avenue (Ernergency) 1504064 NASHUA CAST IRON UNLINED 455 432 4" & 2" 152.071 \$33,930 1888 Completed, Final pavement in 2016 est - \$33,930.00 Howard Avenue (Emergency) NASHUA 1504064 CAST IRON UNLINED 110 107 1 1/2 237.600 \$3,900 1888 YES Completed, Final pavement in 2016 est - \$3900.00 Coburn Woods NASHUA POLYBUTYLENE 700 700 274.000 274,000 S 40,700 1969 NO Owner paved all streets - project deferred 5+ years Allds Street at Main St NASHUA CEMENT LINED STEEL 105,000 \$-70 VFS City delayed to 2016 Field St at Main St NA5HUA CAST IRON UNLINED 65.000 S YES City delayed to 2016 Fossa Ave at Main St NASHUA CAST IRON UNLINED 65,000 \$-City delayed to 2016 Revere St at Main St NASHUA CAST IRON UNLINED 90.000 \$-YES City delayed to 2016 Pratt St at Main St NASHUA CAST IRON LINLINED 65.000 \$-YES City delayed to 2016 Fowell Ave at Main St. NASHIIA CAST IRON UNLINED 65,000 \$-70 YES City delayed to 2016 Stevens St at Main St NASHUA CAST IRON UNLINED 18 70 YES City delayed to 2016 Faxon St at Main St. NASHUA CAST IRON UNLINED 15 58,000 \$-City delayed to 2016 Buchanan St at Main St NASHUA CAST IRON UNLINED 15 58.000 S-YES City delayed to 2016 Lincoln St at Main St NASHUA CAST IRON LINLINED 15 58.000 \$-70 YES City delayed to 2016 Russell Ave at Main St NASHIIA CAST IRON UNLINED 72.000 \$-70 YES City delayed to 2016 53 54 55 56 57 58 59 60 61 62 Taylor St at Main St NASHUA CAST IRON UNLINED 15 70 YES City delayed to 2016 Dickerman St at Main St NASHUA CAST IRON UNLINED 15 Abando 20,000 \$-YES City delayed to 2016 Dickerman St at Main St NASHUA CAST IRON UNLINED 26 88,000 \$-YES City delayed to 2016 Orchard Ave at Main St. NASHUA CAST IRON UNLINED 15 Abandon 40,000 \$-YES City delayed to 2016 Main St NASHIIA CAST IRON LINITINED 2,600 Abandon 40,000 YES City delayed to 2016 Tolles Stree NASHUA CAST IRON UNLINED 139,500 City delayed to 2016 Total LF -14,640 15,070 15,729 13,493 11,568 Total - \$ 4.503.600 S 4.643.100 \$ 4,746,500 \$ 3,881,175 3,089,415 \$ 289,330 Paving from 2014 projects - S 77.522 \$ 77,522 \$ 77.522 \$ 77,522 \$ 44,436 Valve Repl 16,050 16,050 16,050 \$ 16,050 \$ 10,558 (40)Service Replaceme 85,388 \$ 85,388 \$ 85.388 S 85.38B S 76,496 Hydrant Replacer 17 29,374 29,374 \$ 29.374 S 29,374 \$ 76,976 450,360 310,860 Planning Contingency² 207,460 388,118 Total Estimated WICA \$\$ in 2015 - \$ 5,162,294 \$ 5,162,294 \$ 5,162,294 \$ 4,477,627 \$ 3,297,881 2015 year end costs reflect actual \$\$ spent on 5 valve replacements, 37 service replacements and 17 hydrant replacements. The average cost for each replacement types is the average cost for 2015. Updated \$\$ for Hydrant, Service and Valve replacements reflect 2015 Year to date work order costs. 68 2. Project contingencies are not included as all billing for WICA projects completed in 2015 have been received and included in the WICA totals.

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	PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	EXISTING PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	PIPE INSTALLATION DATE	PIPE AGE USEFUL LIFE	FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	WATER QUAUTY	FIRE PROTECTION FLOWS ²	Work coordination with Gas, Sewer or Storm Drain Replacement	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in WICA proj Janua
	Fossa Ave Int with Main St	NASHUA	CAST IRON UNLINED	68	6	8	\$ 65,000	1928	70	YES				2	P	8	3	11	, anding source	Yes
_	Buchanan St Int with Main St	NASHUA	CAST IRON UNLINED	45	8	8	\$ 65,000	1934	70	YES				1	Р	7	3	10		Yes
_	Lincoln Ave Int with Main St	NASHUA	CAST IRON UNLINED	36	6	8	\$ 65,000	1889	70	YES				2	Р	8	3	11		Yes
-	Russell Ave Int with Main St.	NASHUA	CAST IRON UNLINED	18	6	8	\$ 65,000	1906	70	YES				2	Р	8	3	11		Yes
_	Taylor St Int with Main St.	NASHUA	CAST IRON UNLINED	26	- 6	12	\$ 65,000	1906	70	YES				2	P	8	3	11		Yes
_	Faxon St Int with Main St Allds St Int with Main St.	NASHUA	CAST IRON UNLINED	15	6	6	\$ 65,000	1906	70	YES				2	P		3	11		Yes
_	Allds St Int with Main St. (W. Allds)	NASHUA NASHUA	CAST IRON UNLINED	60 50	16 2	16	\$ 90,000	1962	70	YES		3			P	9	3	12	12/2014 Bond	Yes
	Field St Int with Main St.	NASHUA	CAST IRON UNLINED CAST IRON UNLINED	42	6	6	\$ 15,000 \$ 65,000	1930	70	YE5		3		2	P	11		14		
	Revero St Int with Main St	NASHUA	CAST IRON UNLINED	38	6	6	\$ 65,000 \$ 65,000	1922	70	YES				2	P	8	3	11		
	Pratt St Int with Main St.	NASHUA	CAST IRON UNLINED	33	6	12	5 90,000	1921 1908	70 70	YES				2	P	8	3	11		Yes
	Fowell St Int with Main St.	NASHUA	CAST IRON UNLINED	37	6	6	\$ 65,000	12/15/41	100/2100	YES				2	Р	8	3	11		Yes
	Stevens St Int with Main St.	NASHUA	CAST IRON UNLINED	15	6	6	\$ 58,000	1919 1930	70	YES				2 2	P	8	3	11		Yes
	Tolles Street (Canal to Whitney)	NASHUA	CAST IRON UNLINED	470	6	8	\$ 146,000	1888	70	YES		1		2	5&P	8	3	11		Yes
	Temple Street (Armory to Commercial St.)	NASHUA	CAST IRON UNLINED	300	8	8	\$ 93,000	1888	70	YES		1			5 & G & P	11	3	14	×	
	Waler Street	NASHUA	CAST IRON UNLINED	755	6	0	\$ 58,000	1888	70	YES		1	2	7	Jacoar	11	3	14	12/2014 Bond	Yes
	Chapman St (Lund to end)	NASHUA	CAST IRON UNLINED	130	1 1/4	4	\$ 34,000	1948	70	YES			3		Р	10	0	13	12/2014 00110	
	McKean St (Arlington to #31 McKean)	NASHUA	CAST IRON UNLINED	970	6	8	\$ 127,000	1888	70	YES		1		1	P	8	3	11		Yes
	Amherst Street	NASHUA	CAST IRON UNLINED	3150	6	12	\$ 1,071,000	1892-1912	70	YES		1		2	Р	9	3	12		Tes
	Terrace Street	NASHUA	CAST IRON UNLINED	280	4 & 2	4	\$ 73,000	1924, 1946	70	YES			1		P	7	3	10		
	Bruce Street	NASHUA	CAST IRON UNLINED	260	6	6	\$ 72,000	1909-1926	70	YES			1	1	Р	8	3	11	SRF	,
	Berkshire Street	NASHUA	CAST IRON UNLINED	575	6	6	\$ 158,000	1913-1915	70	YES			1	1	Р	8	3	11		
-	Worcester Street (Scripture to Shedds)	NASHUA	CAST IRON UNLINED	399	6	8	\$ 143,000	1888 - 1924	70	YES		11		2	S & G & P	13	3	16		Yes
-	Scripture Street (Temple to Worcester)	NASHUA	CEMENT LINED STEEL	458	6	8	\$ 143,000	1924	70	YES				2	5 & G & P	12	3	15		Yes
	Shedds Avenue (Scripture to Worcester)	NASHUA	CEMENT LINED STEEL	291	2	4	\$ 100,000	1940	40	YES	2	1	1		5&G&P	14	3	17	12/2014 Bond	Yes -
-	Hoyts Ln (Scripture to Shedds) Gorman Ave (Temple to Hoyts)	NASHUA NASHUA	CAST IRON UNLINED CEMENT LINED STEEL	400 113	1 1/2	4	\$ 57,000	1922	70	YES					S&G&P	10	2	12		- N
_	Gilman Street	NASHUA	CAST IRON UNLINED	1460	6 & 8	8	\$ 100,000	1940	40	YES			-1		5 & G & P	11	2	13		N
_	Bridle Path	NASHUA	CAST IRON UNLINED	330	6 & 1 1/4	684	\$ 453,000 \$ 89,000	1909-1924 1930	70	YES				1	Р	7	2	9		N
	Chestnut Street (Kinsley to W. Otterson)	NASHUA	CAST IRON UNLINED	585	684	12	\$ 199,000	1887-1931	70	YES				1	Р	7	2	9	12/2014 Bond	N
т	Hughey St (Hutchison to Warsaw)	NASHUA	CAST IRON UNLINED	755	6	8	\$ 234,000	1924-1946	70	YES		1		3	P	10	3	13		
		(0.00100)	Total LF -			Total -		1524-1540	70	163	/V			1 1		/	2	9		1
					Paving fr	rom 2015 projects -														
	Val	ve Replacements ³ -	7	@	\$ 2,112	=	\$ 14,784													
	Serv	ce Replacements ³ -	31	@	\$ 2,067	=	\$ 64,077													
	Hydra	nt Replacements ³ -	9	@ :	\$ 4,528	=	\$ 40,752													
					Plann	ning Contingency -	\$ 418,800													
					Total Estimated	WICA \$\$ in 2016 -	\$ 5,018,743													
Mate	rial Integity - Rating of 1 point for each break in the la	et 20																		
SO F	ire Ratings - A rating of 1 for each 500 gpm that the flo	ow in the watermain	is less than the ISO required	rating.																
Num	per of Service, Valve and hydrant replacments is the a	verage of the past 5 y	ears The average cost for e	ach replaceme	nt types is the ave	erage cost for 2014														
rwv	must complete replacement of its mains when the C	ity replaces its sewer	mains																	
ine u Work	ity operates on a Fiscal year basis between July 1 and Coordination Legend - P - Project in street affected b	June 30 of the follow	ving Calendar year.	o Car Company	A contingency of		10% i	s carried to account for th	is											
Proje	cts that are highlighted in same color are located in the	ie same geographical	area. If there is no highlight	ing the orolect	are not located i	n proximity to any of	ment, 3 - Project in street her planned WICA project	where sewer and/or stor	m drain repla	cement is occurring	g.									
5&G8	P - Water replacement related to sewer and gas repl	acement with 1/3 cos	at sharing of pavement, must	move water du	e to conflict with	sewer - 10 points	,	-												
S&P	Water replacement related to sewer replacement wi	th 1/2 cost sharing o	f pavement, must move water	er due to conflic	t with sewer - 9 p	oints														
	Water replacement related to gas replacement and 0 y paving street over water main. 1/2 cost sharing of p	ary Street paving wit	n 1/3 cost sharing of paveme	ent. Water does	not have to be m	noved, no conflict wit	h gas - 8 points													
P - Cit	, r o	verticing reduced	in or dailiage or new paven	rent by break o	Old Matel Highli	I HOLIEDIACEU WITH D	avirig project - o points													
P - Ci	ter replacement related to gas replacement with 1/2	cost sharing of paver	ment. Water does not have t	o be moved, no	conflict with gas	- 5 points														

	A		r .																	
58	- A	В	С	D	Е .	F	G	Н	1	J	К	L	M	N	0	P	Q	R	S	T
58 59 60 61 62 63							nichuck Water Works 2017 WICA Water Ma 1/11/2016													Attachment Page 3 of
64	PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	PIPE DIAMETER (INCHES)	(INCHES)	ESTIMATED COST	AGE OF PPE	PIPE AGE USEFUL LIFE	FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Gas, Sewer or Storm Drain Replacement	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in 2015-2017 WICA projects filed in January 2015
65	Bridge St (Amory to E St)	NASHUA	CAST IRON UNLINED	1300	8	12	\$ 442,000	187-1898	70	YES		1		2	P&G	11	3	14		No
67	Sanders St (Bridge to end) D St (Bridge to E. Hollis)	NASHUA	CAST IRON UNLINED CAST IRON UNLINED	526 500	8	6	\$ 30,000 \$ 138,000	1942	70	YES		1			P&G	9	3	12		No
68	E St (Bridge to E. Hollis)	NASHUA	CAST IRON UNLINED	375	8	12	\$ 128,000	1898 1906	70	YES YES		3		2	P&G	10	2	12		No
69	Hobbs Ave (E. Hollis to Crown)	NASHUA	CAST IRON UNLINED	485	8	12	\$ 165,000	1906	70	YES		-		2	P&G P&G	13	3	16		No
70	Chase St (E. Hollis to Crown)	NASHUA	CAST IRON UNLINED	416	6		\$ 114,000	1902	70	YES					P&G	10	2	12		No No
71	Crown St (Denton to Artington)	NASHUA	CAST IRON UNLINED	220	6	12	\$ 75,000	1901-1908	70	YES		1		3	P&G	12	3	15		No No
72	Brook Street (Ash to Fulton)	NASHUA	CAST IRON UNLINED	1141	6	8	\$ 182,000	1887-1924	70	YES		1		3		4	2	6		Yes - 2015
73	Chestnut Street (w. Otterson to Nevada)	NASHUA	CAST IRON UNLINED	515	6 & 4	12	\$ 375,000	1887	70	YES				3		3	2	5		No
74	Lake Street (Pine St. easterly)	NASHUA	CAST IRON UNLINED	154	6		\$ 52,000	1888	70	YES	2			4		6	2	8		Yes - 2015
75	Verona Street (Sarasota to Manatee)	NASHUA NASHUA	CAST IRON UNLINED	698	6		\$ 335,000	1913 - 1915	70	YES		1		2		3	3	6		Yes - 2016
77	Sarasota Avenue (Pine to Verona) Hamilton Street (Lake to Brook)	NASHUA	CAST IRON UNLINED CAST IRON UNLINED	250 411	6	8	\$ 100,000 \$ 113,000	1926-1949	70	YES		1		2		3	3	6		Yes - 2016
78	Burritt Street (Lake to Brook)	NASHUA	CAST IRON UNLINED	424	6	6	\$ 117,000	1909-1941 1887-1921	70	YES		1		1		2	3	5	To Be Deterimined	Yes - 2015
79	Burritt Street (Brook St. southerly)	NASHUA	CAST IRON UNLINED	182	4	4	\$ 107,000	1941	40	YES		1		- 3		4	3	7	Combination of future	Yes - 2015
80	Ash Street (Lake to Lovell)	NASHUA	CAST IRON UNLINED	517	6	6	\$ 130,000	1892	70	YES		1		1			2	2	Bond and future SRF Funding	Yes - 2015
81	Fossa Avenue (Main to end)	NASHUA	CAST IRON UNLINED	282	6	8	\$ 125,000	1928	70	YES				4		4	3	3	ronomg	Yes - 2015
82	Stevens Street (Main to Lawndale)	NASHUA	CAST IRON UNLINED	980	684	6	\$ 270,000	1896 - 1946	70	YES		1		2		3	3	6		Yes - 2016 Yes - 2016
83	Faxon Avenue (Faxon St. to end)	NASHUA	CEMENT LINED STEEL	195	2	4	\$ 34,000	1940	40	YES	1					i	2	3		Yes - 2016
84	Nutt Street (Faxon to Lincoln)	NASHUA	CAST IRON UNLINED	420	4	6	\$ 87,000	1890	40	YES	1			1		2	2	4		Yes - 2016
85	Buchanan Street (Main to Nutt)	NASHUA	CAST IRON UNLINED	590	6	8	\$ 78,000	1908	70	YES				1		1	2	3		Yes - 2016
86	Lincoln Avenue (Main to Fifield)	NASHUA	CAST IRON UNLINED	833	6	8	\$ 133,000	1889 - 1912	70	YES	2			2		4	2	6		Yes - 2016
87	Russell Street (Main to Fifield)	NASHUA	CAST IRON UNLINED	948	6	8	\$ 167,000	1906 - 1913	40	YES				1		1	2	3		Yes - 2016
89	Circle Avenue (Nutt to end) Taylor Street (Main to Lynn)	NASHUA NASHUA	CAST IRON UNLINED	164 1629	6&8	12	\$ 27,000	1930	40	YES							2	2		Yes - 2016
90	Highland St (Fairmount to Auburn)	NASHUA	CAST IRON UNLINED	620	684		\$ 340,000 \$ 171,000	1892 - 1940	70	YES		3		2		5	3	8		Yes - 2016
91	Auburn St (Amherst to Charles)	NASHUA	CAST IRON UNLINED	1225	488	8	\$ 349,000	1892-1932 1887	70	YES				1	G	6	0	6		No
92	Beard St (Fletcher to Auburn)	NASHUA	CAST IRON UNLINED	350	8	-	\$ 109,000	1940	70	YES				2	G	7.	0	7		No
93		- Inches	Total LF -			Total -				125					G	5	0	5		No
105 4. 106 5. 107 6. 108 7.	Servi	ow in the watermain verage of the past 5 ity replaces its sewer June 30 of the follow City Paving Prograps same geographica	years. The average cost for or r mains wing Calendar year. m, G - Project in street wher ll area. If there is no highligh	@ rating+ rach replaceme e Gas Company	\$ 2,112 \$ 2,067 \$ 4,528 Plant Total Estimated	= ming Contingency ⁴ - I WICA \$\$ in 2017 - minus rage cost for 2014 in growing to any on proximity to any on proximity to any on proximity to any on proximity to any one of the continuous continuou	\$ 14,784 \$ 64,077 \$ 40,752 \$ 449,300 \$ 5,311,913	s carried to account for t where sewer and/or sto s	this. orm drain repla	cement is occurrin	g,									
111	S&P - Water replacement related to sewer replacement wi G&P - Water replacement related to gas replacement and C P - City paving street over water main. 1/2 cost sharing of p G - Water replacement related to gas replacement with 1/2	th 1/2 cost sharing on City Street paving with Davement Reduced	of pavement, must move wate th 1/3 cost sharing of pavements risk of damage of new paver	er due to confli ent∦ Water doe nent by break o	ct with sewer - 9 p es not have to be m of old water main i	oints noved, no conflict wi f not replaced with a	ith gas - 8 points paving project - 6 points													

4	A	В	С	D	Е	F	G	Н	1	J	К	L	M	N	0	P	Q	R	S	Т
5 6 7 8 9							nichuck Water Works 2018 WICA Water Mi 1/11/2016	•												Attachmen Page 4 o
0	PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	AGE OF PPE	PIPE AGE USEFUL LIFE	E FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Gas, Sewer or Storm Drain Replacement ^{4,6,8}	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in 2015-201 WICA projects filed in January 2015
1	Allds St (Harbor to Williams)	NASHUA	CAST IRON UNLINED	1788	8	12	\$ 600,000	1924 -1930	70	YES	1	1		2	Р	4		4		Yes - 2017
2	Newbury Street (Underhill to Bowers)	NASHUA	CAST IRON UNLINED	1896	6&8	8	\$ 820,000	1888-1940	70	YES	1	1		1		3	2	5	1	Yes - 2017
3	Gillis Street (Allds to Arlington)	NASHUA	CAST IRON UNLINED	1090	4	8	\$ 500,000	1888	40	YES	1	1	3	2		7	3	10	1	Yes - 2017
1	Proctor Street (Alids to Mulvanity)	NASHUA	CAST IRON UNLINED	206	8	8	\$ 85,000	1929 - 1940	70	YES	1			1		2	3	5		Yes - 2017
	Proctor Street (Mulvanity to end)	NASHUA	CEMENT LINED STEEL	136	2	4	\$ 37,000	1922 - 1940	40	YES	1		1			2	2	4	1	Yes - 2017
<u> </u>	Mulvanity Street (Proctor to end)	NASHUA	CEMENT LINED STEEL	284	2	4	\$ 67,000	1940 -1954	40	YES	0		1			1	2	3	1	Yes - 2017
	Thomas Street (Haines to McKean)	NASHUA	CAST IRON UNLINED	449	6	6	\$ 184,000	1892 - 1908	70	YES	1					1	2	3		Yes - 2017
3	Barker Street (Burke to King)	NASHUA	CAST IRON UNLINED	603	6	6	\$ 151,000	1892	70	YES	0					0	2	2		Yes - 2017
	Williams Street (Allds to Arlington)	NASHUA	CAST IRON UNLINED	1495	6	8	\$ 411,000	1910 - 1934	70	YES	0			2		2	3	5	To Be Deterimined	V 2017
	McKean Street (Allds to Arlington)	NASHUA	CAST IRON UNLINED	1714	6	8	\$ 478,000	1888	70	YES	2					2	3	5	Combination of future	Yes - 2017
	Cherry Street (McKean to end)	NASHUA	CAST IRON UNLINED	236	4	4	\$ 88,000	1926	40	YES	0					0	2	2	Bond and future SRF	Yes - 2017
2	Benson Street (Burke to Spaulding)	NASHUA	CAST IRON UNLINED	630	4	6	\$ 144,000	1889 - 1890	40	YES	0			2		2	2	4	Funding	Yes - 2017
	Arlington Avenue (Gillis to end)	NASHUA	CAST IRON UNLINED	200	4	4	\$ 41,000	1922	40	YES	0					0	2	2		Yes - 2017
	Vine St (W. Hollis to Kinsley)	NASHUA	CAST IRON UNLINED	673	6	8	\$ 211,000	1888	70	YES				1	P&G			-		
	Monroe St (Lake to Early)	NASHUA	CAST IRON UNLINED	768	6	12	\$ 259,000	1893-1906	70	YES				2	P&G			 		No
	Lake St (Pine to Almont)	NASHUA	CAST IRON UNLINED	2767	6	12	\$ 945,000	1890-1899	70	YES		1		9	P&G			 		No
	Linwood St (Lake to Cleveland)	NASHUA	CAST IRON UNLINED	1400	6 & 8	8	\$ 202,000	1891, 1951-1953	70	Yes/no				240	1.00					No
	Edwin St (Blanchard to Cleveland)	NASHUA	CAST IRON UNLINED	465	2	8	\$ 135,000	1955-1962	40	Yes				2						No
	Miami Street (Intervale to Tampa)	NASHUA	GAVANIZED STEEL	427	2	8	\$ 132,000	1927	40	YES	1		1	4		6	2			No
	Supplied Sup		Total LF -	17227		Total -	\$ 5,490,000		_									1 .		No
		Valve Replacements ³ - Service Replacements ³ -	7 31	· @	\$ 2,112 \$ 2,067	from 2017 projects- = =	\$ 250,000 \$ 14,784 \$ 64,077													
		Hydrant Replacements ³ -	9	_	\$ 4,528	=	\$ 40,752													
1			· ·	_	ng Contingency4		\$ 549,000													
			Tr		VICA \$\$ in 2018 -		\$ 6,408,613													
				otal Estimated	ALCA AN IN TOTO		9, 0,400,013													
1, Mat	sterial Integity - Rating of 1 point for each break	k in the last 20 years.																		
N. 120	Fire Ratings - A rating of 1 for each 500 gpm t	hat the flow in the watermain	is less than the ISO required	l rating.																
4. PW	mber of Service, Valve and hydrant replacmen W must complete replacement of its mains wi	ts is the average of the past 5	years. The average cost for	each replaceme	ent types is the ave	erage cost for 2014														
5. The	City operates on a Fiscal year basis between J	uly 1 and June 30 of the follow	wing Calendar year.		A contingency of	ŧ	10%	is carried to account for	this											
6. Wor	ork Coordination Legend - P - Project in street a	affected by City Paying Progra	 m. G - Project in street when 	re Gas Compan	master plan calls	for eas main replace	ment S. Project in street	where sewer and/or sto	orm drain repla	acement is occurrin	ng									
/ Proj	jects that are highlighted in same color are loc	ated in the same geographica	l area. If there is no highligh	iting the project	s are not located	in proximity to any o	ther planned WICA project	ts			900									
8. S&C	G&P - Water replacement related to sewer and	l gas replacement with 1/3 co	st sharing of pavement, mus	t move water d	ue to conflict with	sewer - 10 points														
	P - Water replacement related to sewer replac P - Water replacement related to gas replacem						th are - 9 points													
l car	City and a standard control of the standard control of	and dity street paving wil	iii 1/3 cost silailiig oi pavem	enc water doe	s not nave to be n	ioved, no conflict Wi	ui gas - 8 points													
P-C	City paving street over water main. 1/2 cost sh	iaring of pavement Reduced	risk of damage of new paver	ment by break a	of old water main	if not replaced with r	paving project - 6 points													