

# **APPENDIX 'B'**

## **DESIGN CONDITIONS**

2022 Sewer Renewals by CIPP Lining - Contract 6, Tender 155-2022

Appendix B - Design Conditions

Sewer Details															Design Conditions			
Asset Number	Drawing Sheet #	Drawing #	Street Name	Location Details	Manholes				Length (m)	Size		Shape	Flow Type	Material	Max Depth (m)	Pre EPR Ovality	Post EPR Ovality	PD/FD
					Upstream	Depth (m)	Downstream	Depth (m)		Height (mm)	Width (mm)							
S-MA00009951	3	13074	ANDREWS ST(CL)	MH @ ATLANTIC AV TO TEE @ BACKLANE S ATLANTIC AV	N/A	4.25	S-MH00006482	3.81	42.0	300	300	CIRCULAR	LDS	CO-CONCRETE	4.25	10%	10%	FD
S-MA20017405	4	13075	ARLINGTON ST	3RD MH S OF SARGENT AV TO MH AT ELLICE AV (NPL)	S-MH20015624	4.62	S-MH20015614	5.4	83.5	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	5.40	4%		PD
S-MA20017323	5	13076	ARLINGTON ST	1ST MH S OF ELLICE AV TO 2ND MH S OF ELLICE AV	S-MH20015550	3.35	S-MH20015546	3.92	116.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	3.92	3%	3%	PD
S-MA20015032	6	13077	ARLINGTON ST	1ST MH S OF WESTMINSTER AV TO MH AT WESTMINSTER AV	S-MH20012587	5.68	S-MH20013590	5.94	124.0	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	5.94	7%		FD
S-MA20015297	7	13078	ARLINGTON ST	2ND MH S OF ST PAUL AV TO MH AT PORTAGE AV	S-MH20013791	5.38	S-MH20013780	6.01	84.0	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	6.01	4%	4%	FD
S-MA20015346	8	13079	ARLINGTON ST	1ST MH S OF ST MATTHEWS AV TO MH AT ST PAUL AV	S-MH20013838	4.84	S-MH20013837	5.3	118.0	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	5.30	6%		FD
S-MA20011875	9	13080	BANNATYNE AV W	MH AT CAMPION ST TO MH AT CECIL ST	S-MH20010814	3.68	S-MH20010796	3.83	68.5	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	3.83	9%	9%	FD
S-MA70044305	10	13081	DUNDURN PL	1ST MH W OF MARYLAND ST TO MH AT MARYLAND ST	S-MH20012968	3.58	S-MH20012988	7.95	80.0	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	7.95	8%		FD
S-MA20009354	11	13082	ERIN ST	2ND MH N ELLICE AV - 3RD MH N ELLICE AV	S-MH20008560	3.24	S-MH20008594	3.44	109.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	3.44	7%		FD
S-MA20010020	12	13083	ERIN ST	2ND MH S WELLINGTON AV - 3RD MH S WELLINGTON AV	S-MH20009149	2.95	S-MH20008613	3.27	93.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	3.27	4%		FD
S-MA20011301	13	13084	ERIN ST	1ST MH S OF ST MATTHEWS AV-MH@ST MATTHEWS AV	S-MH20010293	4.04	S-MH20008368	4.45	93.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.45	3%		PD
S-MA20015035	14	13085	EVANSON ST	1ST MH N OF WOLSELEY AV TO MH AT WESTMINSTER AV	S-MH20012570	5.32	S-MH20013591	5.94	123.0	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	5.94	4%	4%	PD
S-MA20015364	15	13086	HOME ST	MH AT PRESTON AV (S.LEG) TO MH AT PRESTON AV (N.LEG)	S-MH20013854	4.74	S-MH70013154	4.57	42.0	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.74	8%	5%	FD
S-MA20017308	16	13087	HOME ST	2ND MH S OF ELLICE AV TO 3RD MH S OF ELLICE AV	S-MH20015652	3.77	S-MH20015430	4.16	86.0	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	4.16	12%	11%	FD
S-MA20015031	17	13088	HOME ST( CL)	2ND MH N OF WOLSELEY AV TO MH AT WESTMINSTER AV	S-MH20012606	5.65	S-MH20013600	5.98	123.0	450	450	CIRCULAR	CS	VC-VITRIFIED CLAY	5.98	5%	3%	FD
S-MA00007618	18	13089	KEEWATIN ST	1ST LDS MH S SELKIRK AV (M) - LDS MH @ SELKIRK AV (M) SPL	S-MH00007604	2.74	S-MH00007612	2.9	55.0	300	300	CIRCULAR	LDS	CO-CONCRETE	2.90	5%		FD
S-MA20011862	19	13090	LINCON AV()	1ST MH W OF CECIL ST.TO MH AT CECIL ST	S-MH20010866	3.81	S-MH20010802	3.93	97.5	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	3.93	10%		FD
S-MA20014363	20	13091	MARYLAND ST	1ST MH N OF PURCELL AV TO MH AT ALLOWAY AV	S-MH20012984	3.17	S-MH20012981	4.32	73.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.32	3%		PD
S-MA20013686	21	13092	MIDDLE GT	1ST MH N OF BLANCHARD AV TO 2ND MH N OF BLANCHARD AV	S-MH20012395	4.38	S-MH20012419	6.7	99.0	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	6.70	5%		FD
S-MA00000416	22	13093	MURRAY AV(S.OF CL)	1ST MH E OF FROG PLAIN WY TO 1ST MH W OF MAIN ST	S-MH00000354	4.95	S-MH00000371	5.75	112.5	250	250	CIRCULAR	WWS	CO-CONCRETE	5.75	4%		FD
S-MA70051399	23	13094	MURRAY AV(S.OF CL)	MH AT DANFORD DR TO 1ST MH E OF DANFORD DR	S-MH70022240	4.13	S-MH00000588	4.29	73.0	250	250	CIRCULAR	WWS	CO-CONCRETE	4.29	7%		FD
S-MA00000465	24	13095	RIDGECREST AV	1ST MH W OF MAIN ST TO 2ND MH W OF MAIN ST	S-MH00000409	4.07	S-MH00000388	4.29	85.5	250	250	CIRCULAR	WWS	CO-CONCRETE	4.29	5%		FD
S-MA00012620	25	13096	RUPERTSLAND AV	1ST MH E AIKINS ST TO MH @ AIKINS ST	S-MH00011282	3.42	S-MH00011286	4.9	98.5	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.90	12%	9%	FD
S-MA20005946	26	13097	SHARP BV	1ST MH S OF NESS AV TO 2ND MH S OF NESS AV	S-MH20005488	2.15	S-MH20005460	2.98	87.0	225	225	CIRCULAR	CS	VC-VITRIFIED CLAY	2.98	8%		FD
S-MA00012466	27	13098	SINCLAIR ST	MH AT BANNERMAN AV TO PLUG N OF BANNERMAN AV	S-MH70076301	2.36	S-MH00010781	2.92	41.5	300	300	CIRCULAR	LDS	CO-CONCRETE	2.92	5%		FD
S-MA00012467	27	13098	SINCLAIR ST	1ST MH S.OF BANNERMAN AV. TO MH AT BANNERMAN AV.	S-MH70076302	2.45	S-MH00010781	2.92	14.0	300	300	CIRCULAR	LDS	CO-CONCRETE	2.92	10%		FD
S-MA20017175	28	13099	ST MATTHEWS AV	MH AT BURNELL ST(EPL) TO MH AT ARLINGTON ST	S-MH20015406	3.40	S-MH20015409	4.52	102.0	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.52	6%		FD
S-MA20015491	29	13100	TORONTO ST	MH AT PORTAGE AV (NPL) TO MH AT PORTAGE AV (N OF CL)	S-MH20013974	5.17	S-MH20013975	5.49	21.5	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	5.49	3%		PD
S-MA20009480	30	13101	WALL ST	1ST MH S OF ELLICE AV TO 2ND MH S OF ELLICE AV	S-MH20008674	3.40	S-MH20008644	4.14	86.0	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.14	10%	4%	FD
S-MA20013976	31	13102	WALNUT ST	MH AT WOLSELEY AV (CL) TO MH AT WOLSELEY AV (N.PL)	S-MH20012658	4.95	S-MH20012661	5.1	11.5	375	375	CIRCULAR	CS	VC-VITRIFIED CLAY	5.10	11%	7%	FD
S-MA20013978	32	13103	WOLSELEY AV	2ND MH W OF MARYLAND ST TO MH AT WALNUT ST	S-MH20012666	3.67	S-MH20012658	4.95	112.0	300	300	CIRCULAR	CS	VC-VITRIFIED CLAY	4.95	6%	6%	FD
S-MA00000530	33	13104	WOODBINE AV	2ND MH E.OF DONAN ST TO 3RD MH E.OF DONAN ST.	S-MH00000445	5.65	S-MH00000444	5.85	97.5	250	250	CIRCULAR	WWS	CO-CONCRETE	5.85	5%		FD
S-MA00000428	34	13105	WOODBINE AV	3RD MH W OF DONAN ST TO 2ND MH W OF DONAN ST	S-MH00000357	3.82	S-MH00000363	4.55	96.5	250	250	CIRCULAR	WWS	CO-CONCRETE	4.55	3%	3%	FD