APPENDIX 'G'

GEOTECHNICAL REPORT

APPENDIX 'G' - GEOTECHNICAL REPORT

The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement structure and/or soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement structure and/or soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.

2019 – 2023 Downtown Pavement Renewals – Broadway (Memorial Boulevard to Main Street)

Table 01 – Pavement Core Hole Summary

Core		Pavement	t Structure			Sample	Moisture	Н	ydrometer	⁻ Analysi	S	Atterberg Limits		
Hole No.	Core Hole Location	Туре	Thickness (mm)	Remarks	Soil Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
CH22-01	Broadway E/B – 27.5 m W of Kennedy St.,	Asphalt	100	Partially recovered.										
61122-01	1.6 m N of S curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
01122.02	Broadway E/B – 32.4 m W of Kennedy St.,	Asphalt	210											
CH22-02	2.6 m N of S curb (Pavement Slab)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-03	Broadway W/B – 9.5 m W of Kennedy St., 1.5 m S of N curb (Pavement Slab)	Asphalt	100											
CH22-03		Concrete	150	Partially recovered.										
	Broadway W/B – 27.1 m W of Kennedy St.,	Asphalt	75											
CH22-04	4.1 m S of N curb (Pavement Slab)	Concrete	200											
01100.05	Broadway W/B – 22.5 m W of Kennedy St.,	Asphalt	130											
CH22-05	2.1 m N of Median curb (Pavement Slab)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										



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Core		Pavement	Structure			Sample	Moisture	F	Hydrometer Analysis			Atterberg Limits		
Hole No.	Core Hole Location	Туре	Thickness (mm)	Remarks	Soil Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
CH22-06	Broadway E/B – 16.2 m E of Fort St., 1.4 m	Asphalt	0	No recovery. Specimen decomposed to granular and irretrievable.										
СП22-00	N of S curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-07	Broadway E/B – 24.0 m W of Main St., 4.5 m	Asphalt	0	No recovery. Specimen decomposed to granular and irretrievable.										
СП22-07	S of median curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-08	Broadway E/B – 18.1 m W of Main St., 1.6 m S of median curb (Pavement Slab)	Asphalt	150											
01122-00		Concrete	180											
CH22-09	Broadway W/B – 25.0 m W of Main St., 1.9 m	Asphalt	110											
СП22-09	S of N curb (Pavement Slab)	Concrete	180											
01122-10	Broadway W/B – 29.9 m W of Main St., 1.9 m S of N curb (Pavement Joint)	Asphalt	60	Partially recovered.										
CH22-10		Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										

Table 02 – Pavement Core Hole Summary



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Table 03 – Pavement Core Hole Summary

Core		Pavement	t Structure			Sample	Moisture	Н	ydrometer	r Analysi	S	Atterberg Limits		
Hole No.	Core Hole Location	Туре	Thickness (mm)	Remarks	Soil Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
CH22-11	Broadway W/B – 23.9 m E of Fort St., 4.6 m S	Asphalt	100											
	of N curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-12	Broadway W/B – 33.8 m E of Garry St., 1.5 m	Asphalt	60	Partially recovered.										
01122-12	S of N curb (Pavement Joint)	Concrete	160	Partially recovered.										
01100 10	Broadway W/B – 30.7 m E of Garry St., 3.8 m	Asphalt	60											
CH22-13	S of N curb (Pavement Slab)	Concrete	200											
01100-14	Broadway W/B – 18.7 m E of Garry St., 1.4 m	Asphalt	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-14	N of median curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-15	Broadway E/B – 22.8 m E of Garry St., 1.4 m	Asphalt	0	No recovery. Specimen decomposed to granular and irretrievable.										
61122-13	N of S curb (Pavement Joint)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										



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Table 04 – Pavement Core Hole Summary

Core		Pavement	t Structure			Sample	Moisture	Н	ydrometer	⁻ Analysi	S	Atterberg Limits		nits
Hole No.	Core Hole Location	Туре	Thickness (mm)	Remarks	Soil Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
CH22-16	Broadway E/B – 31.0 m E of Garry St., 1.4 m	Asphalt	70	Partially recovered.										
CH22-10	N of S curb (Pavement Slab)	Concrete	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-17	Broadway E/B – 37.2 m E of Garry St., 3.8 m	Asphalt	60											
01122-17	N of S curb (Pavement Joint)	Concrete	100	Partially recovered.										
CH22-18	Broadway W/B – 45.8 m E of Smith St., 4.5 m	Asphalt	100											
CH22-10	S of N curb (Pavement Joint)	Concrete	175											
01100 10	Broadway W/B – 40.5 m E of Smith St., 4.3 m	Asphalt	60											
CH22-19	S of N curb (Pavement Slab)	Concrete	210											
	Broadway W/B – 37.9 m E of Smith St., 1.3 m	Asphalt	0	No recovery. Specimen decomposed to granular and irretrievable.										
CH22-20	N of median curb (Pavement Joint)	Concrete	130	Partially recovered.										



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Table 05 – Pavement Core Hole Summary

Core Hole No.	Core Hole Location	Pavement	Structure			Sample	Moisture	Н	ydrometer	Analysis	5	Atterberg Limits			
		Туре	Thickness (mm)	Remarks	Soil Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	
	Broadway W/B – 38.6 m E of Donald St., 4.4	Asphalt	50	Partially recovered.											
CH22-21	m S of N curb (Pavement Joint)	Concrete	160												
01100.00	Broadway W/B – 34.8 m E of Donald St., 1.4	Asphalt	60												
CH22-22	m N of median curb (Pavement Slab)	Concrete	200												
	Broadway W/B – 30.3 m E of Donald St., 1.5 m N of median curb (Pavement Joint)	Asphalt	50												
CH22-23		Concrete	160												





Photograph 1: CH22-01 – Broadway



Photograph 2: CH22-02 – Broadway



Photograph 3: CH22-03 – Broadway



Photograph 4: CH22-04 – Broadway



Photograph 5: CH22-05 – Broadway



Photograph 6: CH22-08 – Broadway



Photograph 7: CH22-09 – Broadway



Photograph 8: CH22-10 – Broadway



Photograph 9: CH22-11 – Broadway



Photograph 10: CH22-12 – Broadway



Photograph 11: CH22-13 – Broadway



Photograph 12: CH22-16 – Broadway



Photograph 13: CH22-17 – Broadway



Photograph 14: CH22-18 – Broadway



Photograph 15: CH22-19 – Broadway



Photograph 16: CH22-20 – Broadway



Photograph 17: CH22-21 – Broadway



Photograph 18: CH22-22 – Broadway



Photograph 19: CH22-23 – Broadway









