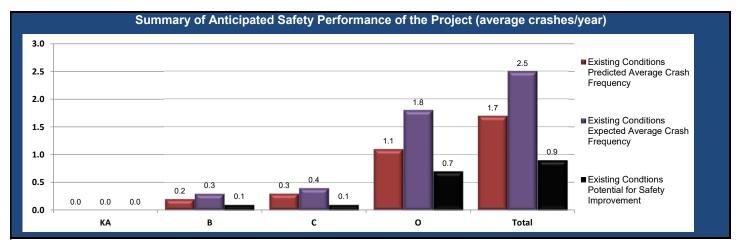
Coonpath Rd and Election House Rd Intersection Feasibility Study

Appendix C ECAT Analysis

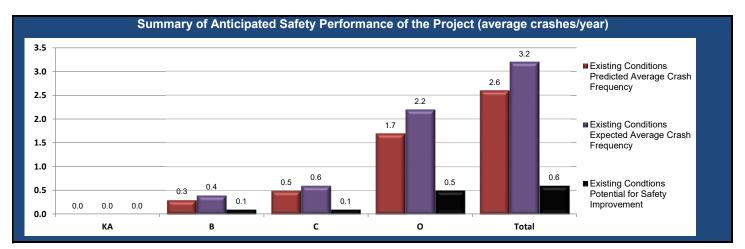


ECAT	Project Safety P	Project Safety Performance Report			
Economic Crash Analysis Tool					
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - Existing Analyis	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2024		
Agency/Company	B&N				



Project Summary Results (Without Animal Crashes)						
KA B C O Total						
N _{predicted} - Existing Conditions	0.0200	0.2041	0.2985	1.1361	1.6587	
N _{expected} - Existing Conditions	0.0292	0.2679	0.3883	1.8303	2.5157	
N _{potential for improvement} - Existing Conditions	0.0092	0.0638	0.0898	0.6942	0.8570	

ECAT	Project Safety P	Project Safety Performance Report			
Economic Crash Analysis Tool	General	Information			
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - No Build Analyis	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2048		
Agency/Company	B&N				



Project Summary Results (Without Animal Crashes)					
KA B C O Total					
N _{predicted} - Existing Conditions	0.0339	0.3418	0.5047	1.7377	2.6181
N _{expected} - Existing Conditions	0.0424	0.3932	0.5646	2.2418	3.2420
N _{potential for improvement} - Existing Conditions	0.0085	0.0514	0.0599	0.5041	0.6239

ECAT	Project Safety P	Project Safety Performance Report			
Economic Crash Analysis Tool	Information				
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - No Build Analyis	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2048		
Agency/Company	B&N				

Existing Conditions Project Element Predicted Crash Summary (Without Animal Crashes)						
Project Element ID	Crash Severity Level					
Project Element ID	Common Name	KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.0339	0.3418	0.5047	1.7377	2.6181

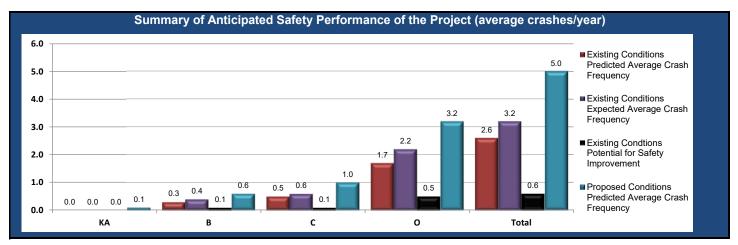
Existing Conditions Project Element Expected Crash Summary (Without Animal Crashes)						
Project Element ID Common Name				Crash Severity Level		
Project Element ID	Common Name	KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.0424	0.3932	0.5646	2.2418	3.242

Existing Conditions Project Element Potential for Safety Improvement Summary (Without Animal Crashes)						
Project Element ID Common Name		Crash Severity Level				
Project Element ID	Common Name	KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.0085	0.0514	0.0599	0.5041	0.6239

Summary by Crash Type					
		Existing		Proposed	
Crash Type	Predicted Crash Expected Crash Frequency Frequency		PSI	Expected Crash Frequency	
Unknown	0.0002	0.0000	-0.0002		
Head On	0.0143	0.0226	0.0083		
Rear End	0.3849	0.6583	0.2734		
Backing	0.1136	0.2106	0.0970		
Sideswipe - Meeting	0.0000	0.0000	0.0000		
Sideswipe - Passing	0.0743	0.1377	0.0634		
Angle	0.7465	1.2775	0.5310		
Parked Vehicle	0.0711	0.0000	-0.0711		
Pedestrian	0.0242	0.0242	0.0000		
Animal	0.0000	0.0000	0.0000		
Train	0.0000	0.0000	0.0000		
Pedalcycles	0.0178	0.0178	0.0000		
Other Non-Vehicle	0.0000	0.0000	0.0000		
Fixed Object	0.1131	0.0000	-0.1131		
Other Object	0.0000	0.0000	0.0000		
Overturning	0.0000	0.0000	0.0000		
Other Non-Collision	0.0043	0.0000	-0.0043		
Left Turn	0.0362	0.0632	0.0270		
Right Turn	0.0581	0.1037	0.0456		



ECAT	Project Safety Pe	Project Safety Performance Report			
Economic Crash Analysis Tool	General I	General Information			
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - Build Analyis, Proposed Signal	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2048		
Agency/Company	B&N				



Project Summary Results (Without Animal Crashes)						
	KA	В	С	0	Total	
N _{predicted} - Existing Conditions	0.0339	0.3418	0.5047	1.7377	2.6181	
N _{expected} - Existing Conditions	0.0424	0.3932	0.5646	2.2418	3.2420	
N _{potential for improvement} - Existing Conditions	0.0085	0.0514	0.0599	0.5041	0.6239	
N _{expected} - Proposed Conditions	0.1340	0.6377	0.9565	3.2498	4.9780	

ECAT	Project Safety Pe	Project Safety Performance Report			
Economic Crash Analysis Tool	General I	nformation			
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - Build Analyis, Proposed Signal	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2048		
Agency/Company	B&N				

	Existing Conditions Project Element Predicted Crash Summary (Without Animal Crashes)					
Project Element ID Common Name Crash Severity				Crash Severity Level		
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.0339	0.3418	0.5047	1.7377	2.6181

	Existing Conditions Project Element Expected Crash Summary (Without Animal Crashes)					
Project Element ID	Common Name Crash Severity Level					
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.0424	0.3932	0.5646	2.2418	3.242

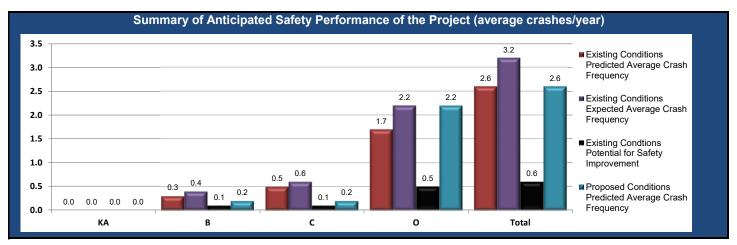
Existing Conditions Project Element Potential for Safety Improvement Summary (Without Animal Crashes)						
Project Element ID	Project Element ID Common Name	Crash Severity Level				
Project Element ID	Common Name	KA B C O				Total
CR31; 3.099	Coonpath at Election House					0.6239

	Proposed Conditions Project Element Predicted Crash Summary (Without Animal Crashes)					
Project Element ID Common Name Crash Severity Level						
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.134	0.6377	0.9565	3.2498	4.978

	Sum	mary by Crash	Туре	
		Existing		Proposed
Crash Type	Predicted Crash Frequency	Expected Crash Frequency	PSI	Predicted Crash Frequency
Unknown	0.0002	0.0000	-0.0002	0.0098
Head On	0.0143	0.0226	0.0083	0.0923
Rear End	0.3849	0.6583	0.2734	2.3087
Backing	0.1136	0.2106	0.0970	0.0914
Sideswipe - Meeting	0.0000	0.0000	0.0000	0.0036
Sideswipe - Passing	0.0743	0.1377	0.0634	0.4573
Angle	0.7465	1.2775	0.5310	0.8015
Parked Vehicle	0.0711	0.0000	-0.0711	0.0413
Pedestrian	0.0242	0.0242	0.0000	0.0134
Animal	0.0000	0.0000	0.0000	0.0000
Train	0.0000	0.0000	0.0000	0.0007
Pedalcycles	0.0178	0.0178	0.0000	0.0035
Other Non-Vehicle	0.0000	0.0000	0.0000	0.0000
Fixed Object	0.1131	0.0000	-0.1131	0.3508
Other Object	0.0000	0.0000	0.0000	0.0139
Overturning	0.0000	0.0000	0.0000	0.0193
Other Non-Collision	0.0043	0.0000	-0.0043	0.0283
Left Turn	0.0362	0.0632	0.0270	0.5164
Right Turn	0.0581	0.1037	0.0456	0.2256



ECAT	Project Safety Pe	rformance Report	
Economic Crash Analysis Tool	General I	nformation	
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com
Project Description	Intersection Feasibility Study - Build Analyis, Proposed Roundabout	Contact Phone	
Reference Number	-	Date Performed	6/11/2024
Analyst	MLV	Analysis Year	2048
Agency/Company	B&N		



Project Summary Results (Without Animal Crashes)						
	KA	В	С	0	Total	
N _{predicted} - Existing Conditions	0.0339	0.3418	0.5047	1.7377	2.6181	
N _{expected} - Existing Conditions	0.0424	0.3932	0.5646	2.2418	3.2420	
N _{potential for improvement} - Existing Conditions	0.0085	0.0514	0.0599	0.5041	0.6239	
N _{expected} - Proposed Conditions	0.0231	0.1947	0.2413	2.1897	2.6488	

ECAT	Project Safety Pe	erformance Repo	rt
Economic Crash Analysis Tool	General I	nformation	
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com
Project Description	Intersection Feasibility Study - Build Analyis, Proposed Roundabout	Contact Phone	
Reference Number	-	Date Performed	6/11/2024
Analyst	MLV	Analysis Year	2048
Agency/Company	B&N		

	Existing Conditions Project Element Predicted Crash Summary (Without Animal Crashes)					
Project Element ID Common Name Crash Severity				Crash Severity Level		
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.0339	0.3418	0.5047	1.7377	2.6181

	Existing Conditions Project Element Expected Crash Summary (Without Animal Crashes)					
Project Element ID	Common Name Crash Severity Level					
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.0424	0.3932	0.5646	2.2418	3.242

Existing Conditions Project Element Potential for Safety Improvement Summary (Without Animal Crashes)								
Project Element ID	roject Element ID Common Name	Crash Severity Level						
Project Element ID	Common Name	KA B C O Total						
CR31; 3.099	Coonpath at Election House	0.0085	0.0514					

	Proposed Conditions Project Element Predicted Crash Summary (Without Animal Crashes)					
Project Element ID Common Name Crash Severity Level						
Project Element ID	Common Name	KA B C O Total				Total
CR31; 3.099	Coonpath at Election House	0.0231	0.1947	0.2413	2.1897	2.6488

Summary by Crash Type							
		Proposed					
Crash Type	Predicted Crash Expected Crash Frequency Frequency		PSI	Predicted Crash Frequency			
Unknown	0.0002	0.0000	-0.0002	0.0710			
Head On	0.0143	0.0226	0.0083	0.0046			
Rear End	0.3849	0.6583	0.2734	0.4350			
Backing	0.1136	0.2106	0.0970	0.0221			
Sideswipe - Meeting	0.0000	0.0000	0.0000	0.0000			
Sideswipe - Passing	0.0743	0.1377	0.0634	0.8052			
Angle	0.7465	1.2775	0.5310	0.7446			
Parked Vehicle	0.0711	0.0000	-0.0711	0.0000			
Pedestrian	0.0242	0.0242	0.0000	0.0046			
Animal	0.0000	0.0000	0.0000	0.0267			
Train	0.0000	0.0000	0.0000	0.0000			
Pedalcycles	0.0178	0.0178	0.0000	0.0046			
Other Non-Vehicle	0.0000	0.0000	0.0000	0.0000			
Fixed Object	0.1131	0.0000	-0.1131	0.2676			
Other Object	0.0000	0.0000	0.0000	0.0000			
Overturning	0.0000	0.0000	0.0000	0.0046			
Other Non-Collision	0.0043	0.0000	-0.0043	0.0488			
Left Turn	0.0362	0.0632	0.0270	0.0627			
Right Turn	0.0581	0.1037	0.0456	0.1734			



ECAT	Project Safety Performance Report				
Economic Crash Analysis Tool	General Information				
Project Name	Coonpath Road at Election House Road	Contact Email	megan.valentine@burgessniple.com		
Project Description	Intersection Feasibility Study - Existing Analyis	Contact Phone			
Reference Number	-	Date Performed	6/11/2024		
Analyst	MLV	Analysis Year	2024		
Agency/Company	B&N				

Existing Conditions Project Element Predicted Crash Summary (Without Animal Crashes)						
Project Element ID	Common Name	Crash Severity Level				
	Common Name	KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.02	0.2041	0.2985	1.1361	1.6587

Existing Conditions Project Element Expected Crash Summary (Without Animal Crashes)						
Project Element ID	Common Name	Crash Severity Level				
		KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.0292	0.2679	0.3883	1.8303	2.5157

Existing Conditions Project Element Potential for Safety Improvement Summary (Without Animal Crashes)						
Project Element ID	Common Name	Crash Severity Level				
		KA	В	С	0	Total
CR31; 3.099	Coonpath at Election House	0.0092	0.0638	0.0898	0.6942	0.857

Summary by Crash Type						
Crash Type		Proposed				
	Predicted Crash Frequency	Expected Crash Frequency	PSI	Expected Crash Frequency		
Unknown	0.0002	0.0000	-0.0002			
Head On	0.0143	0.0226	0.0083			
Rear End	0.3849	0.6583	0.2734			
Backing	0.1136	0.2106	0.0970			
Sideswipe - Meeting	0.0000	0.0000	0.0000			
Sideswipe - Passing	0.0743	0.1377	0.0634			
Angle	0.7465	1.2775	0.5310			
Parked Vehicle	0.0711	0.0000	-0.0711			
Pedestrian	0.0242	0.0242	0.0000			
Animal	0.0000	0.0000	0.0000			
Train	0.0000	0.0000	0.0000			
Pedalcycles	0.0178	0.0178	0.0000			
Other Non-Vehicle	0.0000	0.0000	0.0000			
Fixed Object	0.1131	0.0000	-0.1131			
Other Object	0.0000	0.0000	0.0000			
Overturning	0.0000	0.0000	0.0000			
Other Non-Collision	0.0043	0.0000	-0.0043			
Left Turn	0.0362	0.0632	0.0270			
Right Turn	0.0581	0.1037	0.0456			

