

## Basic Results Summary

### User and Project Details

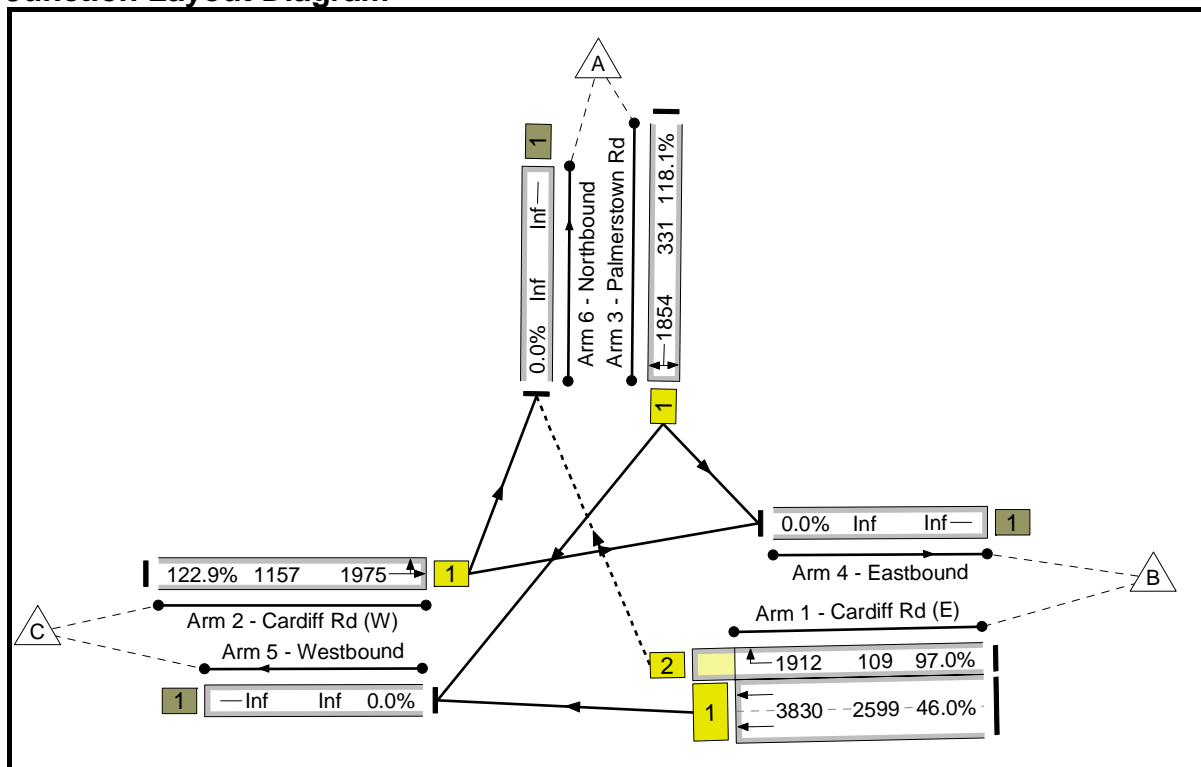
<b>Project:</b>	<b>Waterfront Barry</b>
<b>Title:</b>	<b>AM with Development</b>
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals-mod2.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 1: 'AM 2020 Base+Dev'

Staging Plan 1: 'Right - Every Other Cycle (Double)'

Flow Group 1: 'AM 2020 Base+Dev'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)			
1/1	Cardiff Rd (E) Ahead	U	B		2	93	-	1196	3830	3830	2599	46.0	-	-	-	2.2	6.5	11.4			
1/2	Cardiff Rd (E) Right	O	E		1	7	-	106	1912	1912	109	97.0	0	82	24	6.3	215.2	8.5			
2/1	Cardiff Rd (W) Ahead Left	U	D		2	80	-	1422	1975	1975	1157	122.9	-	-	-	162.8	412.0	193.4			
3/1	Palmerstown Rd Left Right	U	A		2	23	-	391	1854	1854	331	118.1	-	-	-	40.9	376.7	46.3			
					PRC for Signalled Links (%):	-36.6	Total Delay for Signalled Links (pcuHr):					212.19									
					PRC Over All Links (%):	-36.6	Total Delay Over All Links(pcuHr):					212.19	Cycle Time (s):				140				

## Basic Results Summary

### User and Project Details

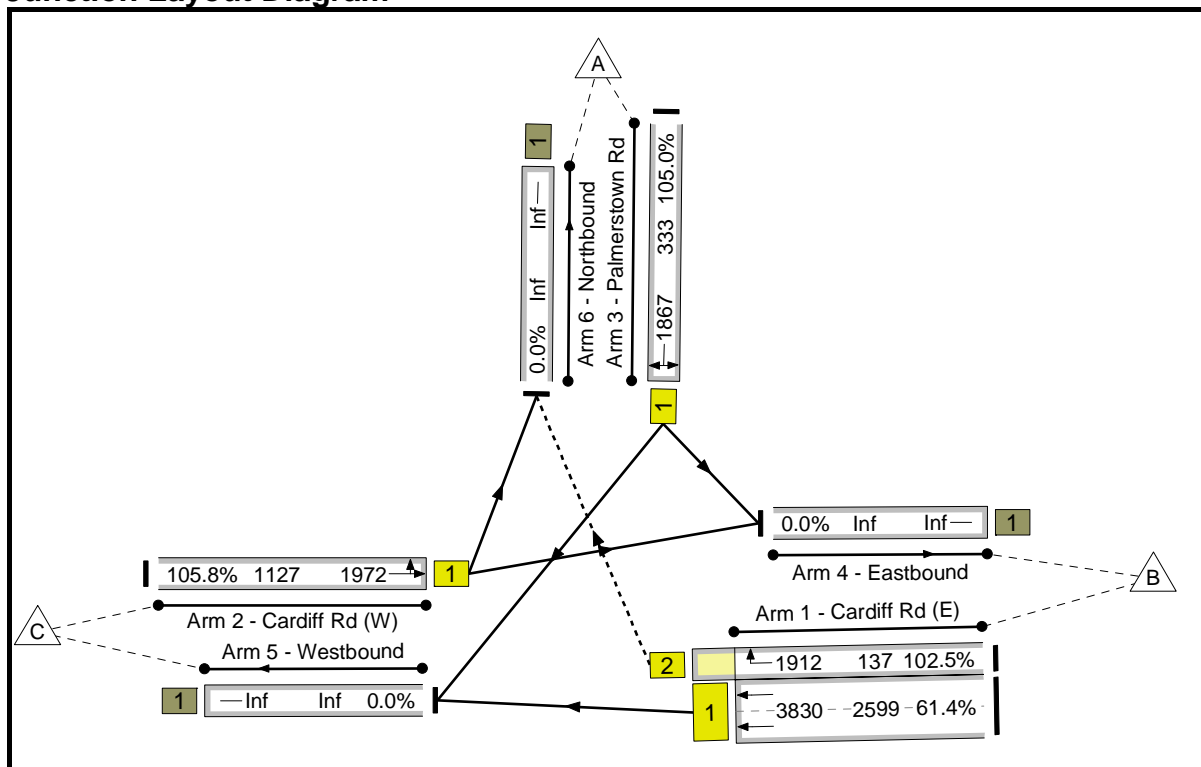
<b>Project:</b>	<b>Waterfront Barry</b>
<b>Title:</b>	<b>PM with Development</b>
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals-mod2.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 2: 'PM 2020 Base+Dev'

Staging Plan 1: 'Right - Every Other Cycle (Double)'

Flow Group 2: 'PM 2020 Base+Dev'

### Junction Layout Diagram



Basic Results Summary

**Link Results**

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)	
1/1	Cardiff Rd (E) Ahead	U	B		2	93	-	1597	3830	3830	2599	61.4	-	-	-	3.6	8.0	19.0	
1/2	Cardiff Rd (E) Right	O	E		1	9	-	140	1912	1912	137	102.5	0	109	27	9.6	246.6	12.4	
2/1	Cardiff Rd (W) Ahead Left	U	D		2	78	-	1192	1972	1972	1127	105.8	-	-	-	50.0	151.0	75.2	
3/1	Palmerstown Rd Left Right	U	A		2	23	-	350	1867	1867	333	105.0	-	-	-	18.7	192.0	23.3	
					PRC for Signalled Links (%):	-17.5	Total Delay for Signalled Links (pcuHr):					81.80							
					PRC Over All Links (%):	-17.5	Total Delay Over All Links(pcuHr):					81.80	Cycle Time (s): 140						

## Basic Results Summary

### User and Project Details

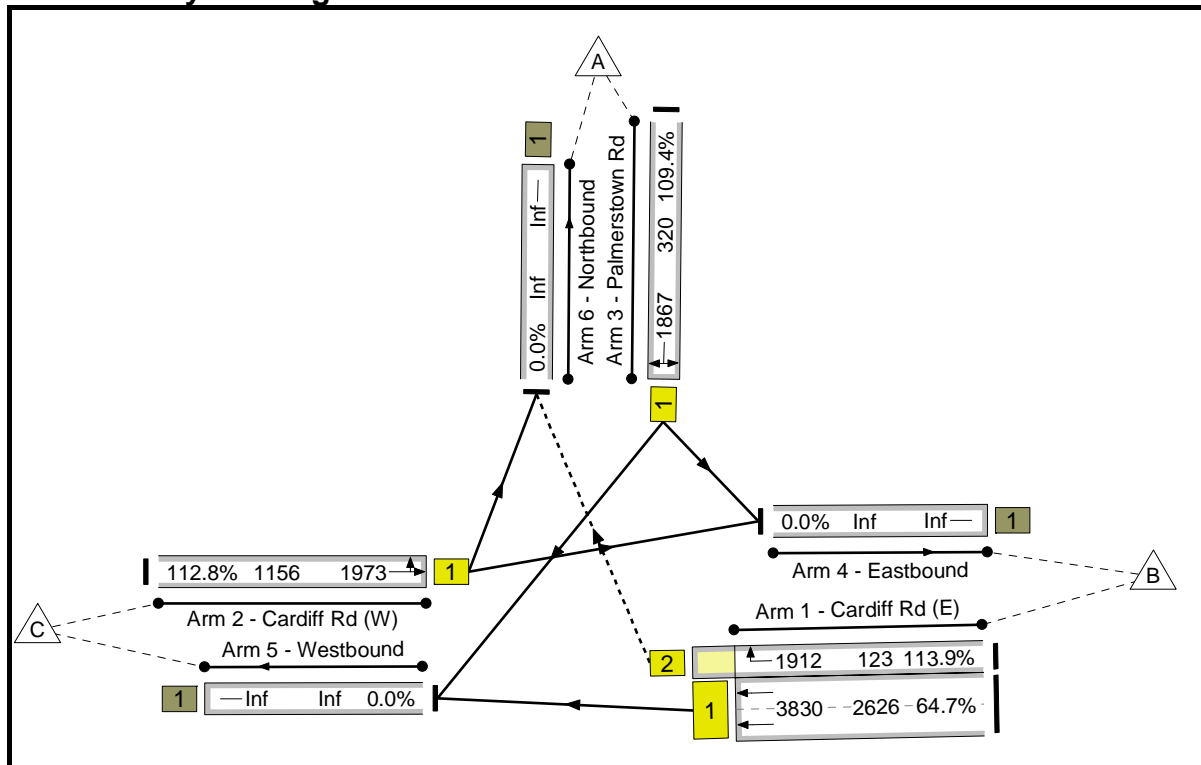
<b>Project:</b>	<b>Waterfront Barry</b>
<b>Title:</b>	<b>2020 with Development and Tourism</b>
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals-mod2.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 3: '2020 Base and Tourism'

Staging Plan 1: 'Right - Every Other Cycle (Double)'

Flow Group 3: '2020 Dev with Tour'

### Junction Layout Diagram



Basic Results Summary

**Link Results**

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)	
1/1	Cardiff Rd (E) Ahead	U	B		2	94	-	1699	3830	3830	2626	64.7	-	-	-	3.9	8.3	21.7	
1/2	Cardiff Rd (E) Right	O	E		1	8	-	140	1912	1912	123	113.9	0	96	27	15.3	392.9	17.7	
2/1	Cardiff Rd (W) Ahead Left	U	D		2	80	-	1304	1973	1973	1156	112.8	-	-	-	94.8	261.6	125.0	
3/1	Palmerstown Rd Left Right	U	A		2	22	-	350	1867	1867	320	109.4	-	-	-	25.0	257.6	30.4	
					PRC for Signalled Links (%): -26.6		Total Delay for Signalled Links (pcuHr):		139.00										
					PRC Over All Links (%): -26.6		Total Delay Over All Links(pcuHr):		139.00		Cycle Time (s): 140								

## Basic Results Summary

### User and Project Details

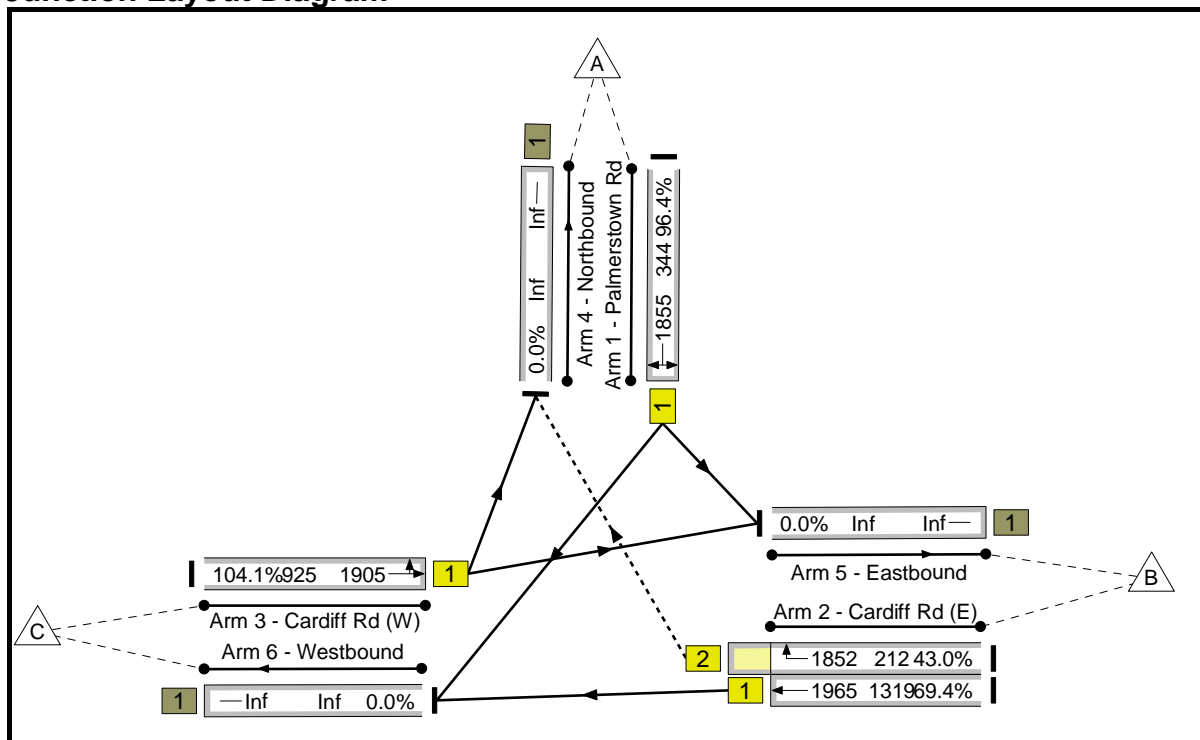
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<b>Title:</b>	
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<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals.lsgx
<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 1: 'AM 2008 Base'

Staging Plan 2: 'Staging Plan No. 2'

Flow Group 1: 'AM 2008 Base'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)	
1/1	Palmerstown Rd Left Right	U	A		1	12	-	332	1855	1855	344	96.4	-	-	-	9.1	98.8	12.9	
2/1	Cardiff Rd (E) Ahead	U	B		1	46	-	916	1965	1965	1319	69.4	-	-	-	2.9	11.5	12.1	
2/2	Cardiff Rd (E) Right	O	C		1	7	-	91	1852	1852	212	43.0	0	88	3	1.1	43.7	2.0	
3/1	Cardiff Rd (W) Left Ahead	U	D		1	33	-	963	1905	1905	925	104.1	-	-	-	33.6	125.6	47.0	
					PRC for Signalled Links (%): -15.6		Total Delay for Signalled Links (pcuHr): 46.76												
					PRC Over All Links (%): -15.6		Total Delay Over All Links(pcuHr): 46.76		Cycle Time (s): 70										

## Basic Results Summary

### User and Project Details

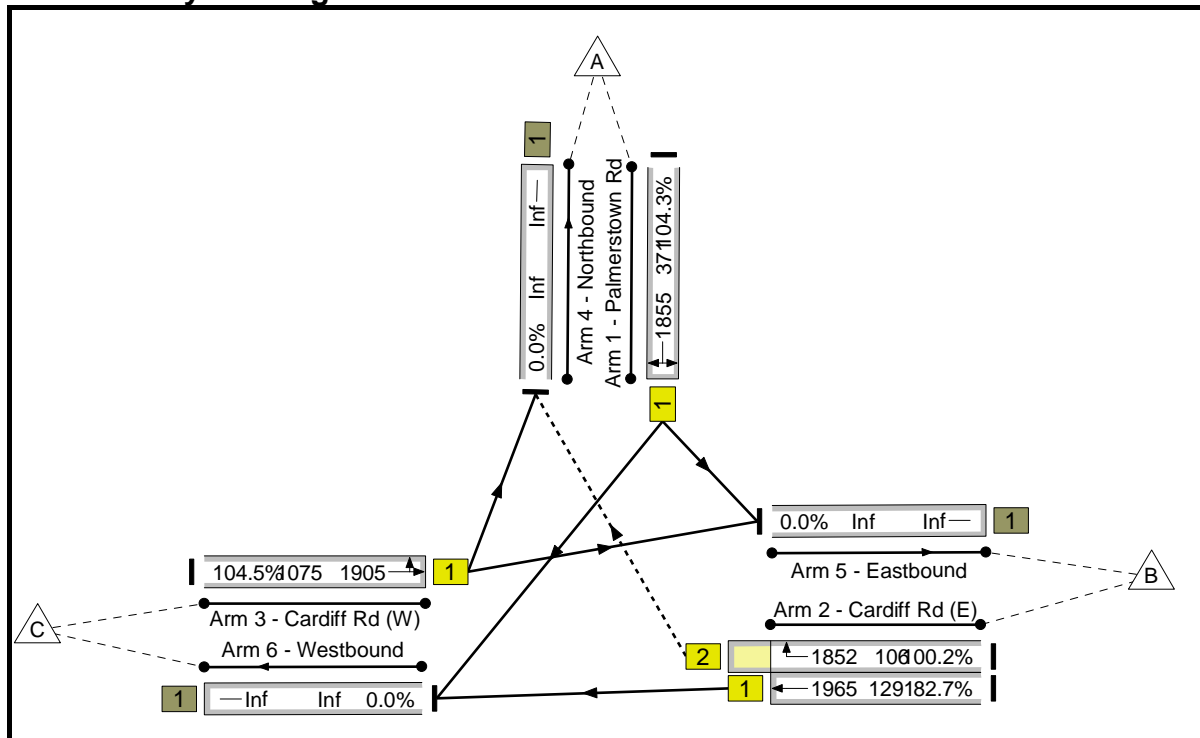
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<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 5: 'AM 2020 Base'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 5: 'AM Base 2020'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)	
1/1	Palmerstown Rd Left Right	U	A		2	26	-	387	1855	1855	371	104.3	-	-	-	18.9	176.2	23.4	
2/1	Cardiff Rd (E) Ahead	U	B		2	90	-	1068	1965	1965	1291	82.7	-	-	-	5.0	16.9	17.8	
2/2	Cardiff Rd (E) Right	O	C		1	7	-	106	1852	1852	106	100.2	0	79	26	7.1	242.6	9.3	
3/1	Cardiff Rd (W) Left Ahead	U	D		2	77	-	1123	1905	1905	1075	104.5	-	-	-	40.9	131.2	59.8	
					PRC for Signalled Links (%): -16.1		Total Delay for Signalled Links (pcuHr): 72.04												
					PRC Over All Links (%): -16.1		Total Delay Over All Links(pcuHr): 72.04				Cycle Time (s): 140								

## Basic Results Summary

### User and Project Details

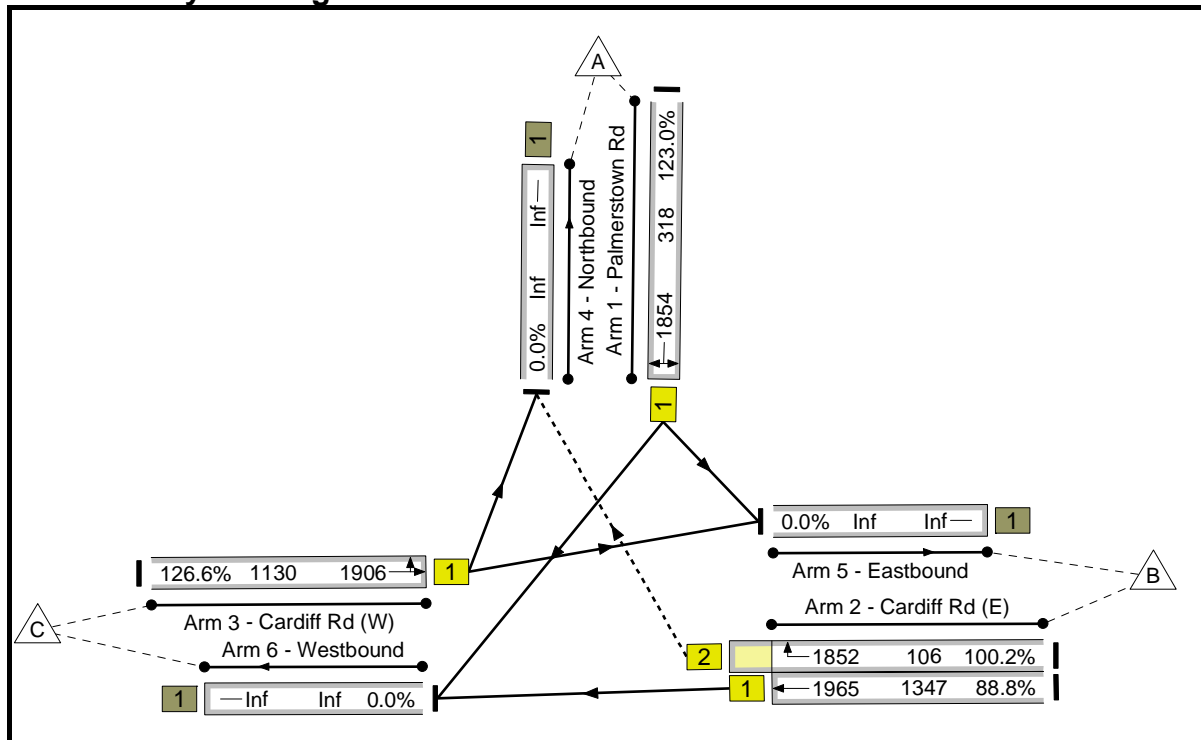
<b>Project:</b>	<b>Waterfront Barry</b>
<b>Title:</b>	<b>AM 2020 with Development</b>
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 3: 'AM 2020 Base+Dev'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 3: 'AM 2020 Base+Dev'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)	
1/1	Palmerstown Rd Left Right	U	A		2	22	-	391	1854	1854	318	123.0	-	-	-	48.3	444.5	54.0	
2/1	Cardiff Rd (E) Ahead	U	B		2	94	-	1196	1965	1965	1347	88.8	-	-	-	7.0	21.1	23.5	
2/2	Cardiff Rd (E) Right	O	C		1	7	-	106	1852	1852	106	100.2	0	79	26	7.1	242.6	9.3	
3/1	Cardiff Rd (W) Left Ahead	U	D		2	81	-	1430	1906	1906	1130	126.6	-	-	-	180.2	453.7	204.3	
					PRC for Signalled Links (%):	-40.6	Total Delay for Signalled Links (pcuHr):					242.66							
					PRC Over All Links (%):	-40.6	Total Delay Over All Links(pcuHr):					242.66	Cycle Time (s): 140						

## Basic Results Summary

### User and Project Details

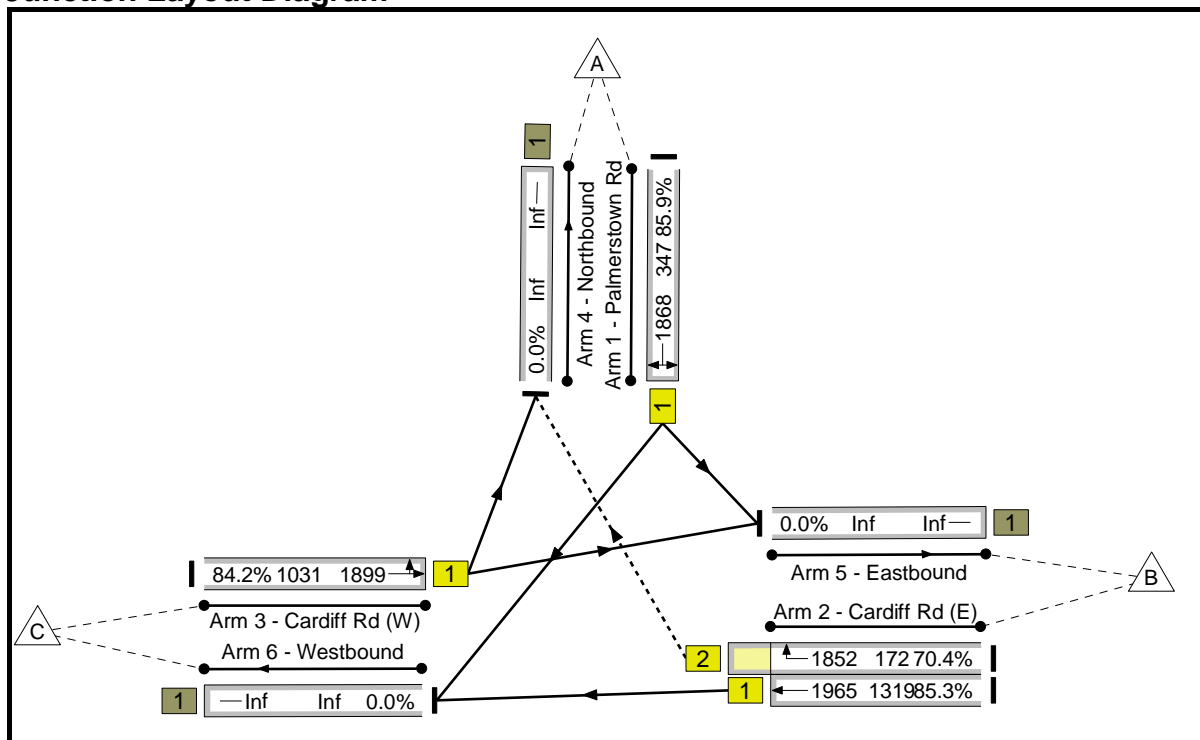
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<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals.lsgx
<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 2: 'PM 2008 Base'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 2: 'PM 2008 Base'

### Junction Layout Diagram



Basic Results Summary

**Link Results**

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)
1/1	Palmerstown Rd Left Right	U	A		2	24	-	298	1868	1868	347	85.9	-	-	-	5.0	60.7	8.3
2/1	Cardiff Rd (E) Ahead	U	B		2	92	-	1125	1965	1965	1319	85.3	-	-	-	5.6	17.9	20.9
2/2	Cardiff Rd (E) Right	O	C		1	12	-	121	1852	1852	172	70.4	0	119	2	3.2	95.4	5.7
3/1	Cardiff Rd (W) Left Ahead	U	D		2	74	-	868	1899	1899	1031	84.2	-	-	-	6.0	24.8	19.7
PRC for Signalled Links (%):					4.8	Total Delay for Signalled Links (pcuHr):					19.82							
PRC Over All Links (%):					4.8	Total Delay Over All Links(pcuHr):					19.82	Cycle Time (s): 140						

## Basic Results Summary

### User and Project Details

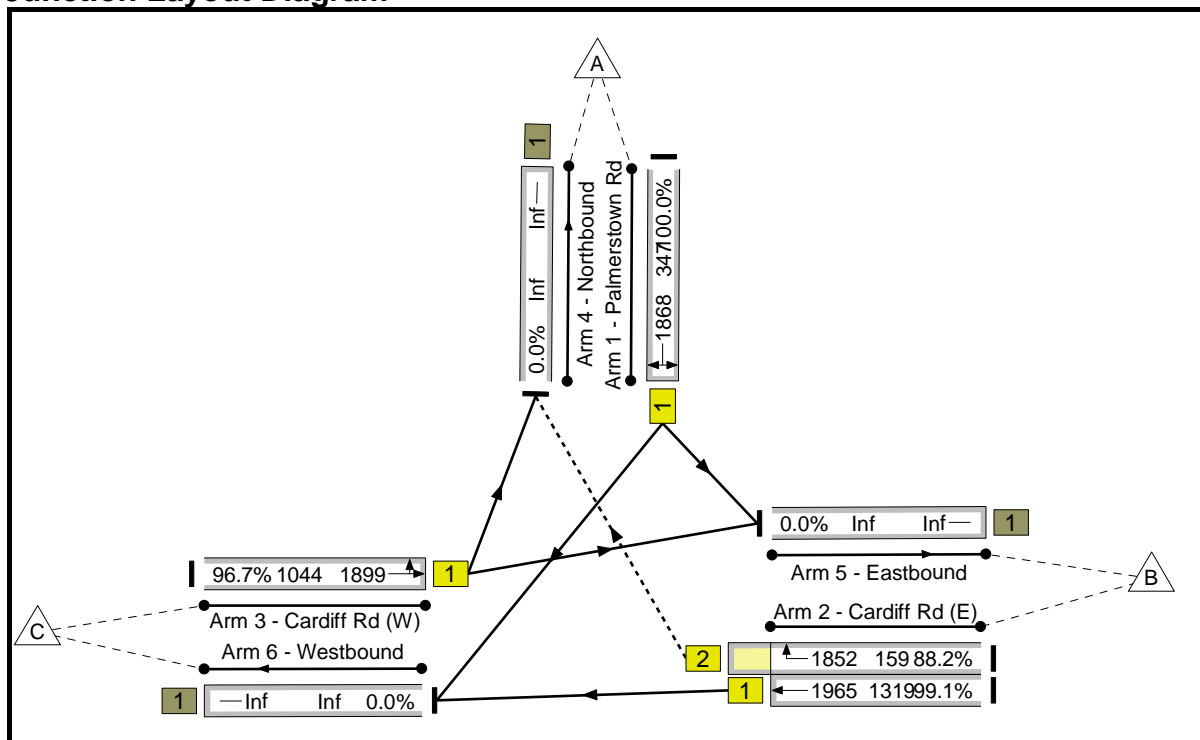
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<b>Location:</b>	
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<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 6: 'PM 2020 Base'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 6: 'PM Base 2020'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)
1/1	Palmerstown Rd Left Right	U	A		2	24	-	347	1868	1868	347	100.0	-	-	-	12.1	125.4	16.1
2/1	Cardiff Rd (E) Ahead	U	B		2	92	-	1308	1965	1965	1319	99.1	-	-	-	19.6	53.9	40.2
2/2	Cardiff Rd (E) Right	O	C		1	11	-	140	1852	1852	159	88.2	0	132	8	5.3	136.9	8.2
3/1	Cardiff Rd (W) Left Ahead	U	D		2	75	-	1010	1899	1899	1044	96.7	-	-	-	14.0	50.0	33.3
					PRC for Signalled Links (%): -11.1		Total Delay for Signalled Links (pcuHr): 51.00											
					PRC Over All Links (%): -11.1		Total Delay Over All Links(pcuHr): 51.00				Cycle Time (s): 140							

## Basic Results Summary

### User and Project Details

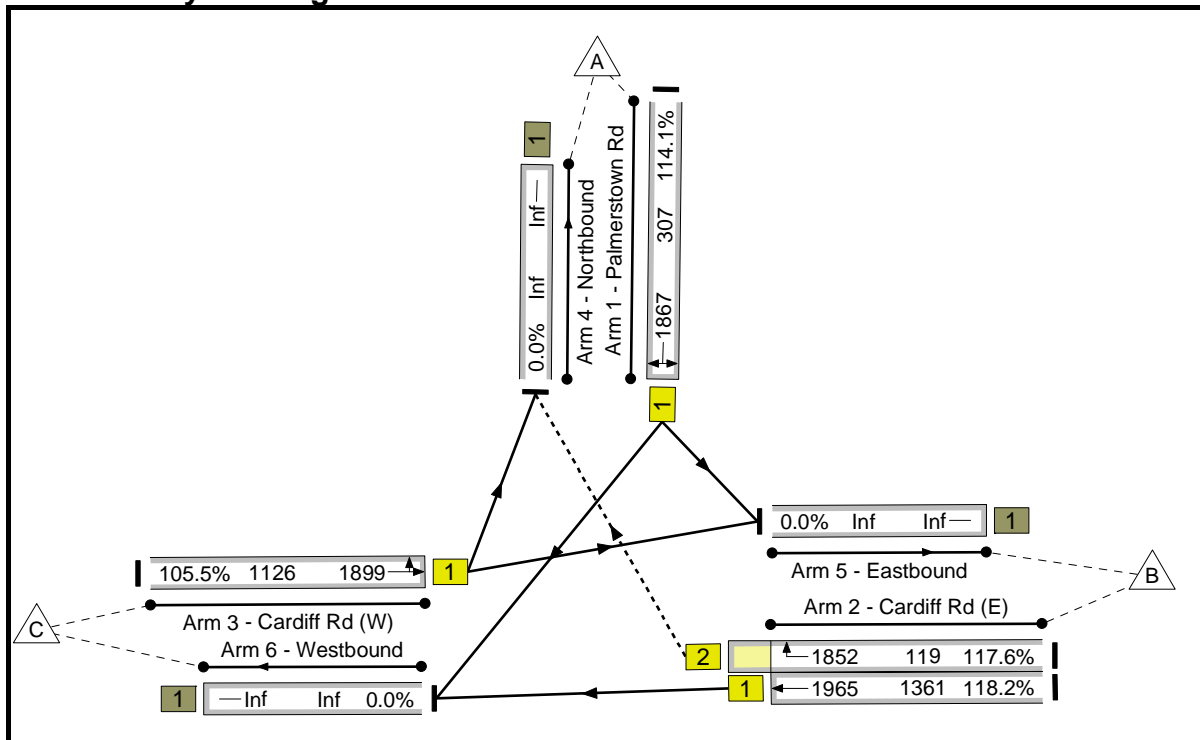
<b>Project:</b>	Waterfront Barry
<b>Title:</b>	PM 2020 with Development
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 4: 'PM 2020 Base+Dev'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 4: 'PM 2020 Base+Dev'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)		
1/1	Palmerstown Rd Left Right	U	A		2	21	-	350	1867	1867	307	114.1	-	-	-	31.9	327.9	36.1		
2/1	Cardiff Rd (E) Ahead	U	B		2	95	-	1609	1965	1965	1361	118.2	-	-	-	151.1	338.1	177.5		
2/2	Cardiff Rd (E) Right	O	C		1	8	-	140	1852	1852	119	117.6	0	93	26	16.9	434.0	19.7		
3/1	Cardiff Rd (W) Left Ahead	U	D		2	81	-	1188	1899	1899	1126	105.5	-	-	-	48.0	145.4	68.9		
					PRC for Signalled Links (%): -31.3		Total Delay for Signalled Links (pcuHr): 247.87													
					PRC Over All Links (%): -31.3		Total Delay Over All Links(pcuHr): 247.87						Cycle Time (s): 140							

## Basic Results Summary

### User and Project Details

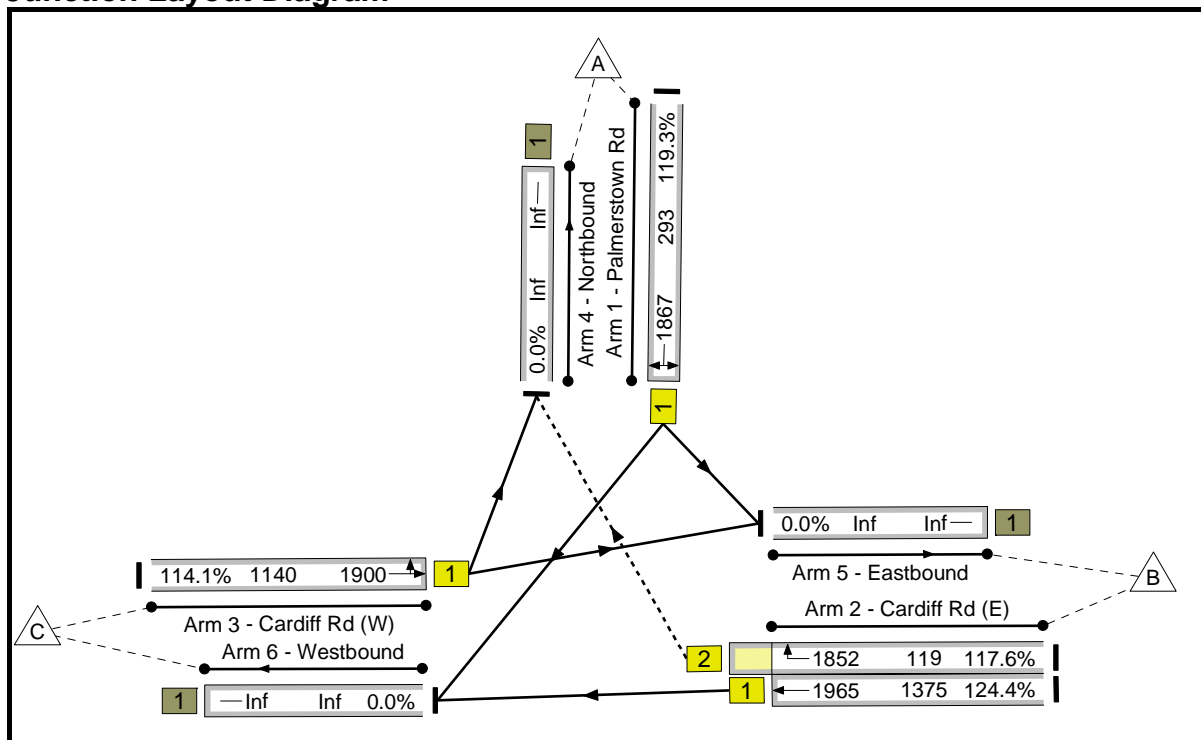
<b>Project:</b>	<b>Waterfront Barry</b>
<b>Title:</b>	<b>2020 with Development and Tourism</b>
<b>Location:</b>	Palmerston Road, Barry
<b>File name:</b>	Palmerston Rd_Cardiff Rd Signals.lsgx
<b>Author:</b>	Ryan Hopkins
<b>Company:</b>	Arup
<b>Address:</b>	
<b>Controller:</b>	Generic
<b>SCN:</b>	
<b>Notes:</b>	

### Scenario 7: 'PM 2020 Base+Dev+tour'

Staging Plan 1: 'Staging Plan No. 1'

Flow Group 7: 'PM 2020 Base+Dev+tour'

### Junction Layout Diagram



Basic Results Summary

Link Results

Link Num	Link Desc	Link Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Max Sat Flow (pcu/Hr)	Ave Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per Veh (s/pcu)	Mean Max Queue (pcu)		
1/1	Palmerstown Rd Left Right	U	A		2	20	-	350	1867	1867	293	119.3	-	-	-	38.6	396.8	43.1		
2/1	Cardiff Rd (E) Ahead	U	B		2	96	-	1711	1965	1965	1375	124.4	-	-	-	202.8	426.7	235.4		
2/2	Cardiff Rd (E) Right	O	C		1	8	-	140	1852	1852	119	117.6	0	93	26	16.9	434.9	19.7		
3/1	Cardiff Rd (W) Left Ahead	U	D		2	82	-	1301	1900	1900	1140	114.1	-	-	-	100.9	279.1	120.7		
					PRC for Signalled Links (%): -38.2		Total Delay for Signalled Links (pcuHr): 359.14													
					PRC Over All Links (%): -38.2		Total Delay Over All Links(pcuHr): 359.14												Cycle Time (s): 140	