

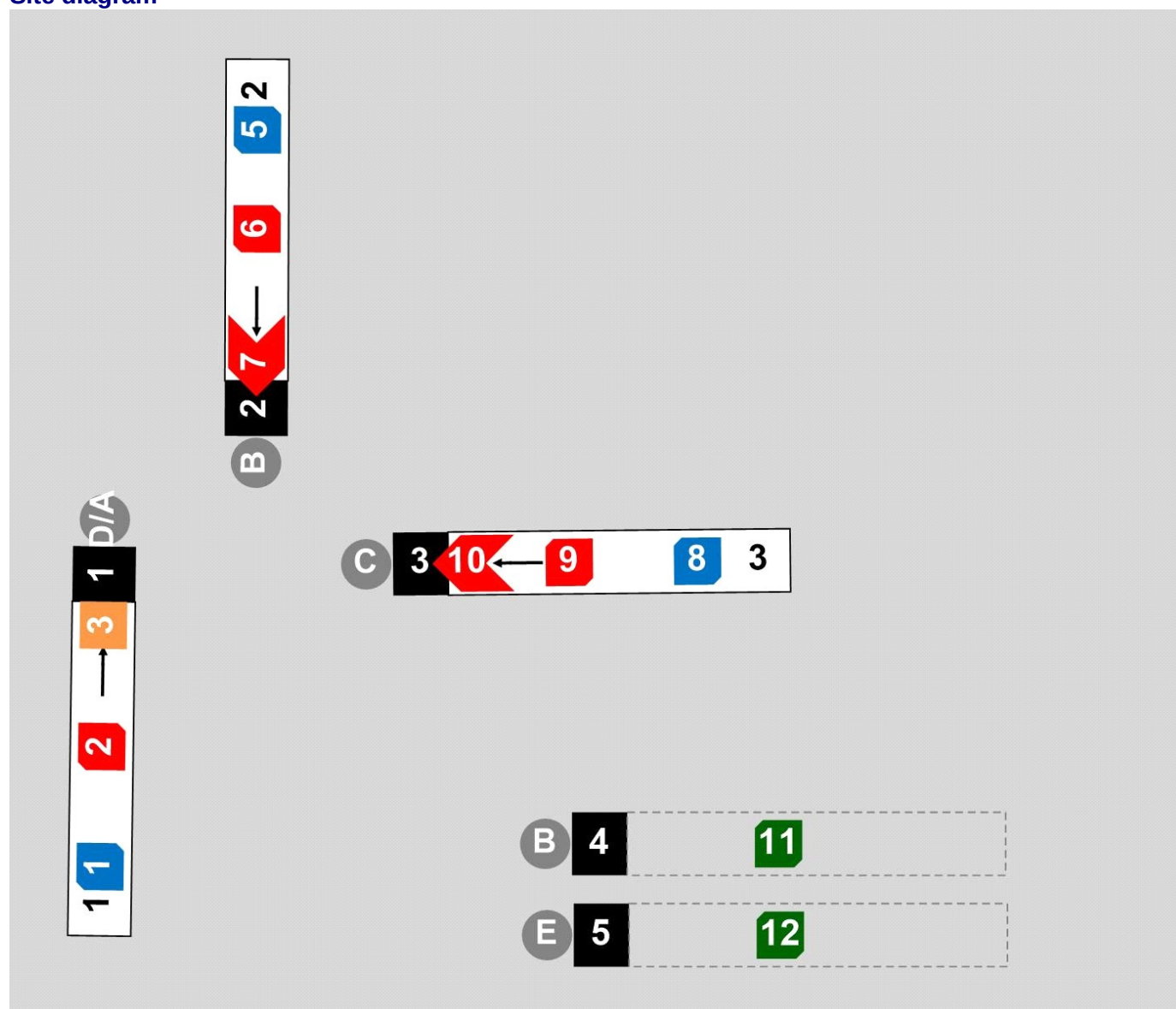
MOVA Tools
Site Configuration
Version: 3.2.0.482 [3-Dec-2019] © Copyright TRL Limited, 2021
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Filename: Llay New Rd_Plas Acton Rd MOVA dataset.mova

Path: \\192.168.1.10\Canwell\Traffic Signals\Current Workings\Wales\Wrexham\Llay New Road_Plas Acton Road\MOVA

Report generation date: 03/06/2021 16:53:19

Site diagram



Data Plan 1 - (untitled)

Data errors

Severity	Area	Item	Description
Error	Main Stage	MOVA Controller 1	Reversionary stage is set to "", which is not a valid stage

Controller details

MOVA Controller 1

ID	1
MOVA Version	M8.0
Name	Acton1
Description	Llay New Road / Pla Acton Road
Main Stage [MAINST]	
Total Green Limit [TOTALG] (s)	150
Detector ON [DETON]	Closed circuit
Stage Confirm ON [STAGON]	Open circuit
Phase Confirm ON [PHASON]	Open circuit
Stage Demand ON [STGDEM]	Closed circuit

Phases

Phases

Phase ID	A	B	C	D	E
Name	Llay New Rd N/B	Llay New Rd S/B	Plas Acton Road	Llay New Rd Right Turn	All Red Dummy
Phase Type	Traffic	Traffic	Traffic	Indicative Arrow	Dummy
Associated Phase				A	
Minimum Green (s)	7.0	7.0	7.0	4.0	1.0
Interstage Behaviour [LPHASE]	Runs between consecutive stages	Never runs during interstage	Never runs during interstage	Never runs during interstage	Never runs during interstage
Phase Confirm Channel [LPHASE]					

Phase Intergreen Matrix for Controller 1

	To					
From		A	B	C	D	E
	A	-		6		3
	B		-	7	6	3
	C	5	5	-	5	3
	D		6	5	-	3
	E	2	2	2	2	-

Stages

Stages

Stage	1	2	3	4
Description				
Phases In Stage	A,B	A,D	C	E
Auto Set Stage Minimum				
Stage Minimum [MIN] (s)	7.0	4.0	7.0	1.0
Stage Maximum [MAX] (s)	70.0	40.0	40.0	1.0
All Red Pedestrian Stage [REDPED]				

Stages: Pedestrians

Stage	1	2	3	4
Enable Pedestrian Short Cycling				
PEDMAX1 (s)				
PEDMAX2 (%)				

Stages: Alerts

Stage	1	2	3	4
Occupancy alert threshold (ON) [OCCUAL on]	9.90	9.90	9.90	9.90
Occupancy alert threshold (OFF) [OCCUAL off]	9.90	9.90	9.90	9.90

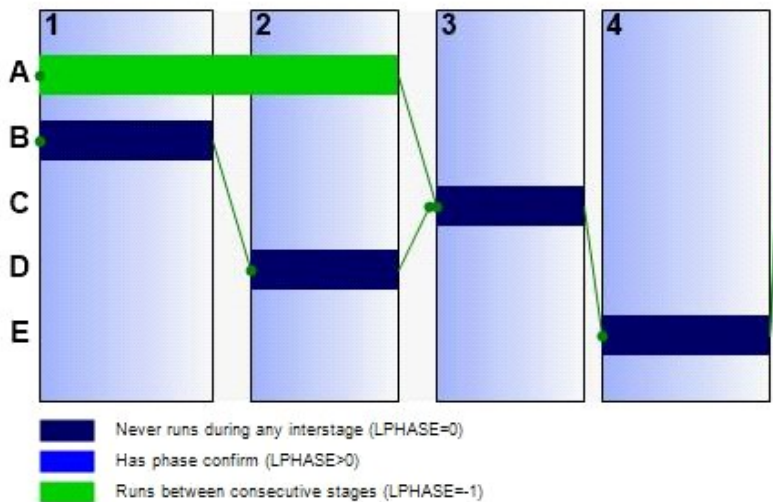
Interstage Matrix for Controller 1

	To				
		1	2	3	4
From	1	-	6	7	3
	2	6	-	6	3
	3	5	(banned)	-	3
	4	2	(banned)	2	-

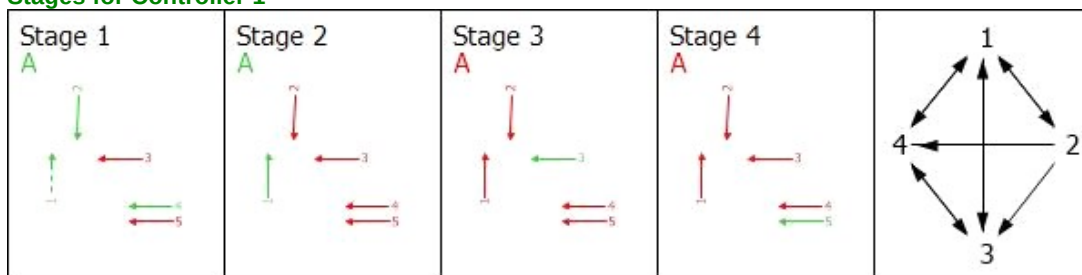
Banned Stage transitions for Controller 1

	To				
		1	2	3	4
From	1	-	Allow	Allow	Allow
	2	Allow	-	Allow	Allow
	3	Allow	Banned	-	Allow
	4	Allow	Banned	Allow	-

Stages and phases for Controller 1



Stages for Controller 1



LGREEN and SDCODE Matrix

LGREEN matrix

	Link					
		1	2	3	4	5
Stage	1	4	1	0	1	0
	2	3	0	0	0	0
	3	0	0	1	0	0
	4	0	0	0	0	1

SDCODE matrix

	Link					
		1	2	3	4	5
Stage	1	1	1		1	
	2	21				
	3			1		
	4					1

Links

Links

Link	1	2	3	4	5
Name					
Description				Call Stage 1	Call All Red
Lanes	1	2	3		
Phase	D	B	C	B	E
Link Type [LTYPE]	Traffic	Traffic	Traffic	Simple Traffic	Simple Traffic
Demand Channel				11	12
Latched				✓	✓
Volumetric Detection					
Use Wait Channel					
Wait Channel [WAITCH]					
LPHASE_RAW	0	0	0	0	0
LTYPE_RAW	0	0	0	11	12

Link: Modelling

Link	1	2	3	4	5
Auto Set Link Minimum Green		✓	✓		✓
Link Minimum Green [LMIN] (s)	7.0	7.0	7.0	1.0	1.0
Link Maximum Green [LNKMAX] (s)	500.0	500.0	500.0	500.0	500.0
Auto Set Stop Penalty					
Heavy Vehicles (%)					
Stop Penalty [STOPEN] (s)	9.0	9.0	9.0		
Auto-set End of Saturation Time	✓	✓	✓		
End of Saturation Time [ESLMAX] (s)	110.0	70.0	40.0		
Auto Set Lost Time					
Lost Time [LOSTIM] (s)	16.0	16.0	16.0		

Link: Offside Turners

Link	1	2	3	4	5
Auto set MIXOUT	✓	✓	✓		
Early cut-off demand type [MIXOUT]	Base on vehs between X/OUT dets	Not applicable	Not applicable	-	-
Vehicles between X and OUT dets [MIXOUT] (veh)	2				

Link: Constants

Link	1	2	3	4	5
Auto Set	✓	✓	✓	✓	✓
MINPCS	50	50	50	50	50
Is Short Link [SHORTL]					
Number Of Main Lanes [NMAINL]	1	1	1	0	0

Lanes

Lanes

Lane	1	2	3
Name			
Description			
Lane Type	Normal	Normal	Normal
Short Lane Length [DSHORT] (m)			
Lane Weighting Factor [LANEWF]	1	1	1
Cruise Speed [CSPEED] (m/s)	10.0	9.0	10.0
Enter headway?	✓	✓	✓
Headway [SATINC] (s)	1.9	1.8	1.9
Saturation Flow (veh/hr)	1895	2000	1895
Start-up Lost Time [STLOST] (s)	1.3	1.3	1.3
Saturation Flow Feedback [USESF]	Off	Off	Off
Start-up Lost Time Feedback [USEST]	Off	Off	Off

Lane: Detectors

Lane	1	2	3
X Detector ID [X]	2	6	9
X Detector distance [DX] (m)	39.0	41.0	35.0
IN Detector?	✓	✓	✓
IN Detector ID [IN]	1	5	8
IN Detector distance [DIN] (m)	85.0	94.0	75.0
Auto Set	✓	✓	✓
X Detector cruise time [CRUSX] (s)	3.5	4.0	3.0
X Detector queue clear time [MOVEQX] (s)	15.5	16.5	14.5
IN Detector cruise time [CRUSIN] (s)	8.0	10.0	7.0
IN Detector queue clear time [MOVQIN] (s)	28.0	31.0	25.0
Queue Detection Time [QMINON] (s)	6.0	6.0	6.0

Lane: Combination Detectors

Lane	1	2	3
COMB-X Detector present?			
COMB-X Detector ID [COMBX]			
Associated X Det 1 [ASSOCD-1]			
Associated X Det 2?			
Associated X Det 2 [ASSOCD-2]			
Auto Set COMTIM	✓	✓	✓
Time To Use Combination [COMTIM] (s)			

Lane: Other Detectors

Lane	1	2	3
OUT Detector?	✓		
OUT Detector ID	3		
IN-SINK Detector?			
IN-SINK Detector ID			
X-SINK Detector?			
X-SINK Detector ID			
STOPLINE Detector?		✓	✓
STOPLINE Detector ID		7	10
AutoSet ALT-UP	✓	✓	✓
ALT-UP Detector?	✓	✓	✓
ALT-UP Detector ID	1	5	8
ALT-DOWN Detector?	✓	✓	✓
ALT-DOWN Detector ID	3	7	10
IN-SINK2 Detector?			
IN-SINK2 Detector ID			
X-SINK2 Detector?			
X-SINK2 Detector ID			

Lane: Oversaturation

Lane	1	2	3
Auto Set Critical Vehicle Count	✓	✓	✓
Detector For Oversaturation Checking [XOSAT]	IN detector	IN detector	IN detector
Critical Vehicle Count [OSATCC] (veh)	8	11	7
Critical Vehicle Count Compact [OSATCX] (veh)	5	5	4
Critical Vehicle Time [OSATTM]	12.5	11.5	10.5

Lane: Alerts

Lane	1	2	3
Enable Oversaturation Alert			
Oversaturation Cycles [OSATAL]			
Enable Exit Blocking Alert			
Exit Blocking Cycles [EXITAL]			

Lane: Advanced

Lane	1	2	3
Auto set Advanced Values	✓	✓	✓
Max Minimum Green [MAXMIN] (s)	12.5	12.5	11.5
Utilised Amber Time [GAMBER] (s)	2.0	1.5	2.0
Saturation Flow Gap [SATGAP] (s)	1.4	1.3	1.4
Critical Gap [CRITG] (s)	3.4	3.3	3.4
Lengthened Critical Gap [PCRITG] (%)	0	0	0
Portion Of Critical Gap [RCRITG] (%)	0	0	0

Logging

Logging

Telephone Number	
TMA Logging Period [TMAPRD]	60

Logging: Error weighting

Error type	Weighting
Auto Set	✓
Faulty detector [2]	0
Stage not ended [3]	5
Intergreen not ended [4]	5
Invalid stage demanded [5]	5
Wrong stage confirmed [6]	5
Multiple stage confirms [14]	0
Watchdog routine [8]	5
Divide error [16]	5
Program error [11]	0

Logging: Saturation Flow Logs

Time Period	Start Time (HH:mm)	End Time (HH:mm)
Weekday Period 1	07:30	09:30
Weekday Period 2	16:30	18:30
Weekday Period 3	09:30	16:30
Weekday Period 4	18:30	22:00
Saturday	09:00	17:00
Sunday	10:00	16:00

Constants

Constants

Auto Set	SCAN	MINEXT (s)	MAXEXT (s)	ADDGAP	SUBGAP	NDETS	STAGES	NLINKS	NLANES
✓	0.5	3.0	10.5	0.5	0.5	12	4	5	3

Summary of Detectors and Confirms

Detectors

Detector	Detector Type	Link	Lane	Data Plan
1	N		1	
2	X		1	
3	OUT		1	
5	N		2	
6	X		2	
7	Stopline		2	
8	N		3	
9	X		3	
10	Stopline		3	
11	Simple Traffic	4		
12	Simple Traffic	5		

Confirms

Confirm	Stage	Phase
1	1	
2	2	
3	3	
4	4	

Special Conditioning

No rules have been defined