MOVA Tools

Site Configuration

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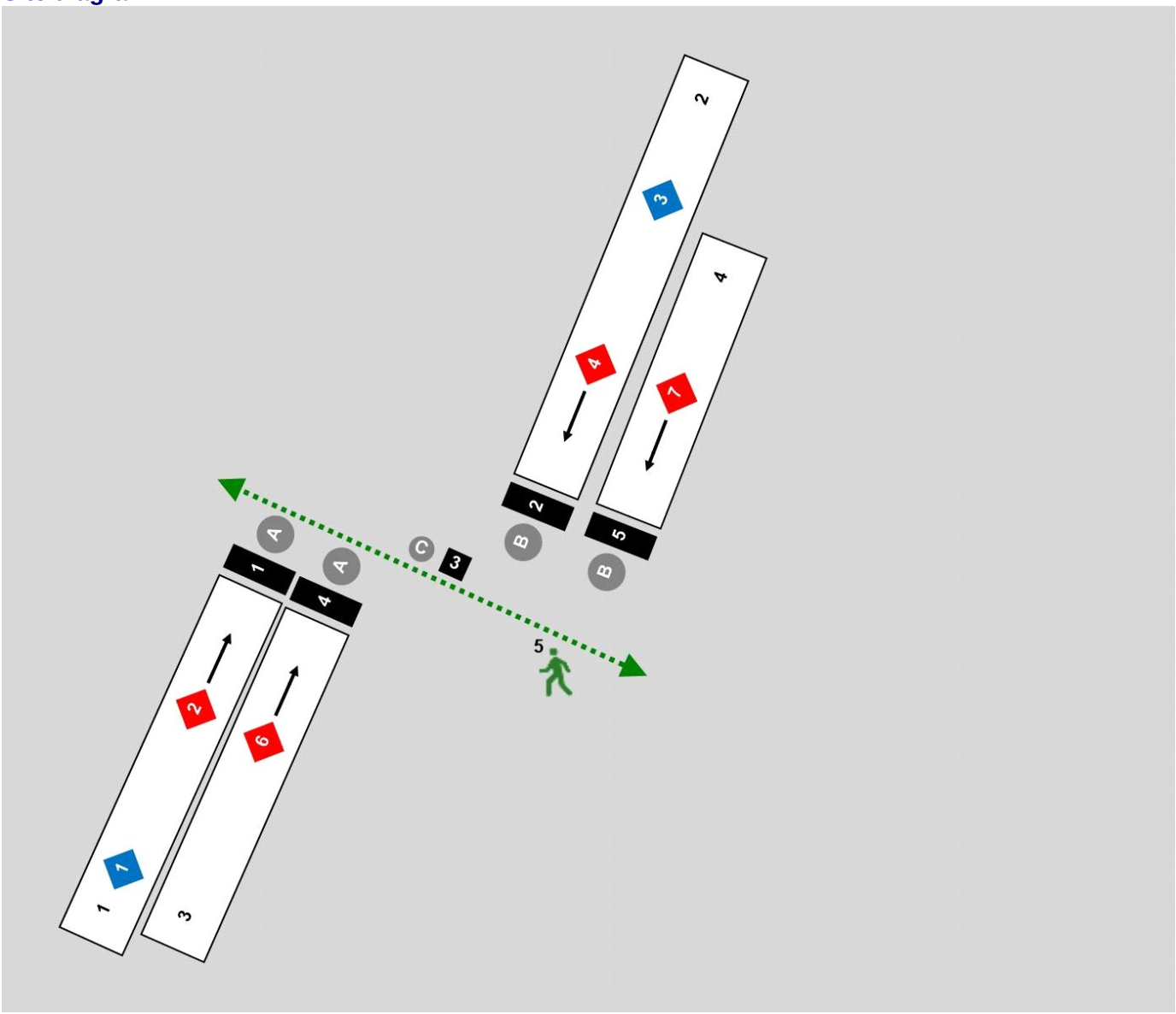
Filename: Haverhill Relief Road Dataset.mova
Path: X:\Projects\MLM Consulting\Haverhill Relief Road Toucan South of RAB\Working Documents\Unfinished!
Report generation date: 09/03/2018 15:11:45

Site diagram



Data Plan 1 - (untitled)

Design Considerations

Severity	Area	Item	Description
Info	X Detector	Link 2 - Lane 2 - Detectors	X Detector on lane 2 should usually be at least 25m away from the IN detector on the same lane.
Info	IN Detector	Link 2 - Lane 2 - Detectors	IN Detector on lane 2 should usually be at least 6.5s cruise time away from the stop line.

Controller details

MOVA Controller 1

ID	1
MOVA Version	M6.0
Name	Haverhill Relief Road N/B
Description	
Main Stage [MAINST]	1
Total Green Limit [TOTALG] (s)	60
Detector ON [DETON]	Closed circuit
Stage Confirm ON [STAGON]	Open circuit
Phase Confirm ON [PHASON]	Open circuit
Stage Demand ON [STGDEM]	Closed circuit
Dataset Filename	Haverhill Toucan South
Checksum Of All Site Data	45 103

Phases

Phases

Phase ID	**A**	**B**	**C**
Name			
Phase Type	Traffic	Traffic	Pedestrian
Associated Phase			
Minimum Green (s)	15.0	15.0	6.0
Interstage Behaviour [LPHASE]	Never runs during interstage	Never runs during interstage	Never runs during interstage
Phase Confirm Channel [LPHASE]			

Phase Intergreen Matrix for Controller 1

		To		
		A	B	C
From	A	-		6
	B		-	6
	C	5	5	-

Stages

Stages

Stage	1	2
Description		
Phases In Stage	A,B	C
Auto-set Stage Minimum	✓	✓
Stage Minimum [MIN] (s)	15.0	6.0
Stage Maximum [MAX] (s)	60.0	6.0
All Red Pedestrian Stage [REDPED]		✓

Stages: Pedestrians

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

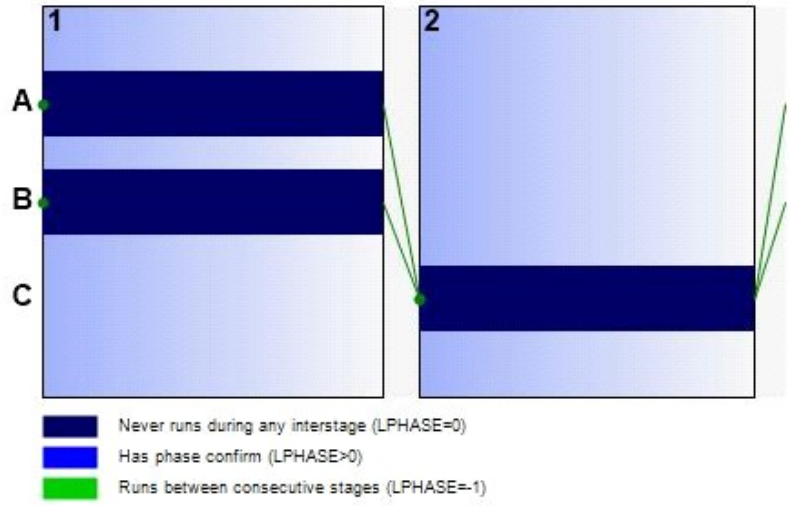
Interstage Matrix for Controller 1

		To	
		1	2
From	1	-	6
	2	5	-

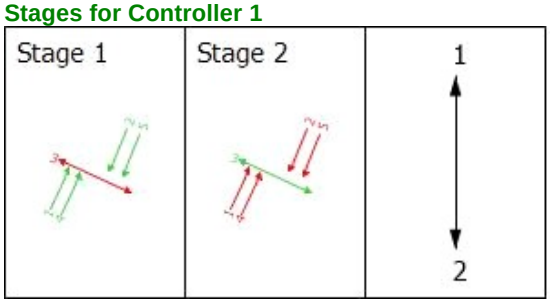
Banned Stage transitions for Controller 1

		To	
		1	2
From	1	-	Allow
	2	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	1	1	0	1	1
	2	0	0	1	0	0

SDCODE matrix

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

Links

Links

Link	1	2	3	4	5
Name					
Description					
Lanes	1	2		3	4
Phase	A	B	C	A	B
Link Type [LTYPE]	Traffic	Traffic	Pedestrian	Traffic	Traffic
Demand Channel			5		
Latched			✓		
Volumetric Detection					
Use Wait Channel					
Wait Channel [WAITCH]					
LPHASE_ RAW	0	0	0	0	0
LTYPE_ RAW	0	0	5	0	0

Link: Modelling

Link	1	2	3	4	5
Auto-set Link Minimum Green	✓	✓	✓	✓	✓
Link Minimum Green [LMIN] (s)	15.0	15.0	6.0	15.0	15.0
Auto-set Stop Penalty					
Heavy Vehicles (%)					
Stop Penalty [STOPEN] (s)	12.0	12.0		16.0	16.0
Auto-set End of Saturation Time	✓	✓		✓	✓
End of Saturation Time [ESLMAX] (s)	60.0	60.0		60.0	60.0
Auto-set Lost Time	✓	✓		✓	✓
Lost Time [LOSTIM] (s)	16.0	16.0		16.0	16.0

Link: Offside Turners

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

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	0	1	1

Lanes

Lanes

Lane	1	2	3	4
Name				
Description				
Lane Type	Normal	Normal	Compact MOVA	Compact MOVA
Short Lane Length [DSHORT] (m)				
Lane Weighting Factor [LANEWF]	1	1	1	1
Cruise Speed [CSPEED] (m/s)	10.0	10.0	10.0	10.0
Enter headway?	✓	✓	✓	✓
Headway [SATINC] (s)	2.0	2.0	2.0	2.0
Saturation Flow (veh/hr)	1800	1800	1800	1800
Start-up Lost Time [STLOST] (s)	1.3	1.3	1.3	1.3

Lane: Detectors

Lane	1	2	3	4
X Detector ID [X]	2	4	6	7
X Detector distance [DX] (m)	35.0	28.0	35.0	28.0
IN Detector?	✓	✓		
IN Detector ID [IN]	1	3		
IN Detector distance [DIN] (m)	85.0	45.0		
Auto-set	✓	✓	✓	✓
X Detector cruise time [CRUSX] (s)	3.0	2.5	3.0	2.5
X Detector queue clear time [MOVEQX] (s)	15.0	12.5	15.0	12.5
IN Detector cruise time [CRUSIN] (s)	8.0	4.0		
IN Detector queue clear time [MOVQIN] (s)	28.0	15.0		
Queue Detection Time [QMINON] (s)	6.0	6.0	6.0	6.0

Lane: Combination Detectors

Lane	1	2	3	4
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	4
OUT Detector?				
OUT Detector ID				
IN-SINK Detector?				
IN-SINK Detector ID				
X-SINK Detector?				
X-SINK Detector ID				
STOPLINE Detector?				
STOPLINE Detector ID				
AutoSet ALT-UP	✓	✓	✓	✓
ALT-UP Detector?	✓	✓		
ALT-UP Detector ID	1	3		
ALT-DOWN Detector?				
ALT-DOWN Detector ID				

Lane: Oversaturation

Lane	1	2	3	4
Auto-set Critical Vehicle Count	✓	✓	✓	✓
Detector For Oversaturation Checking [XOSAT]	IN detector	IN detector	X detector	X detector
Critical Vehicle Count [OSATCC] (veh)	8	4	4	3
Critical Vehicle Time [OSATTM]			10.5	8.5

Lane: Advanced

Lane	1	2	3	4
Auto set Advanced Values	✓	✓	✓	✓
Max Minimum Green [MAXMIN] (s)	12.0	9.5	12.0	9.5
Utilised Amber Time [GAMBER] (s)	2.0	2.0	1.0	1.0
Saturation Flow Gap [SATGAP] (s)	1.4	1.4	1.4	1.4
Critical Gap [CRITG] (s)	3.4	3.4	3.4	3.4

Logging

Logging

Telephone Number	
Assessment Periods Type [ASSTIM]	60 min periods

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: Assessment periods

Assessment Period	Start Time (HH:mm)	End Time (HH:mm)
1	00:00	06:00
2	06:00	07:00
3	07:00	08:00
4	08:00	09:00
5	09:00	12:00
6	12:00	15:00
7	15:00	16:00
8	16:00	17:00
9	17:00	18:00
10	18:00	19:00
11	19:00	20:00
12	20:00	00:00

Constants

Constants

Auto-set	SCAN	MINEXT (s)	MAXEXT (s)	ADDGAP	SUBGAP	NDETS	STAGES	NLINKS	NLANES
✓	0.5	3.0	8.5	0.5	0.5	7	2	5	4

Summary of Detectors and Confirms

Detectors

Detector	Detector Type	Link	Lane	Data Plan
1	N		1	
2	X		1	
3	N		2	
4	X		2	
5	Pedestrian	3		
6	X		3	
7	X		4	

Confirms

Confirm	Stage	Phase
1	1	
2	2	