

| | | ACTION | DATE |
|--------|---|--------------|-----------------|
| TO | 1. SENIOR ENGINEER, CONTROLLER APPLICATIONS | | |
| | 2. DECHLAN BIRT, PROGRAM DELIVERY | | |
| FROM | CAMERON TERRILL | DATE | 16/07/21 |
| SITE | MITCHELL STREET/HARGREAVES STREET | SITE NO. | 6270 |
| REGION | NORTHERN | MUNICIPALITY | GREATER BENDIGO |

GENERAL

| | | | |
|--------------------|--------|--------------------|----------|
| Works Program Job? | Yes | Project Number | 45160MH |
| Classification | SIMPLE | Works Order Number | 4A007707 |

EXISTING CONTROLLER DETAILS

| | | | | | |
|------|----------|----------------------------|--------|----------|-----|
| Type | PSC 2002 | Software Version & Release | V5 R82 | Lanterns | LED |
|------|----------|----------------------------|--------|----------|-----|

CONTROLLER APPLICATIONS

| | |
|---------------------------------------|----------------|
| Target Date for Draft Opsheet | 22 JULY 2021 |
| Target Date for completion of Program | 12 AUGUST 2021 |

| | |
|----------------------|--|
| Prepare Interlocking | |
|----------------------|--|

| | |
|-----------------------------|----|
| Update Graphics, Site Notes | No |
|-----------------------------|----|

| | |
|------------------------|------------------------------|
| Description of changes | Reprogram for double phasing |
|------------------------|------------------------------|

PERSONALITY CHECKSUMS

| | Hex | Octal |
|-------|-----|-------|
| Total | EB | 353 |
| Times | 11 | 21 |
| Pers | FA | 372 |

| | |
|------------|----------|
| Dispatched | 16/08/21 |
|------------|----------|

| | | |
|--------------------------|-----------------------------|---|
| <input type="checkbox"/> | Site ID Revision updated to | B |
|--------------------------|-----------------------------|---|

PROGRAM DELIVERY - SIGNAL INSTALLATION

| | | | |
|-------------------------------------|---|--------------------------|--|
| <input checked="" type="checkbox"/> | Changes to signal hardware | <input type="checkbox"/> | Changes to interlocking |
| <input type="checkbox"/> | Additional detectors | <input type="checkbox"/> | Changes to existing detector numbering |
| <input type="checkbox"/> | Upgrade controller software to | | |
| <input type="checkbox"/> | Other changes | | |
| <input checked="" type="checkbox"/> | Place new operation specification in controller | | |

PRIOR NOTICE

A job must be entered into RAI Action database before this PROM change will be allowed.

| | | | | |
|--|-----------------------------|-----------------|-----|------|
| <input checked="" type="checkbox"/> | SCATS data changes - notify | CAMERON TERRILL | Ext | 1210 |
| | OR | NATHAN CORCORAN | Ext | 1210 |
| before 3:00pm on the day before switch on. | | | | |

SCATS Data Changes - Slot data, update graphics

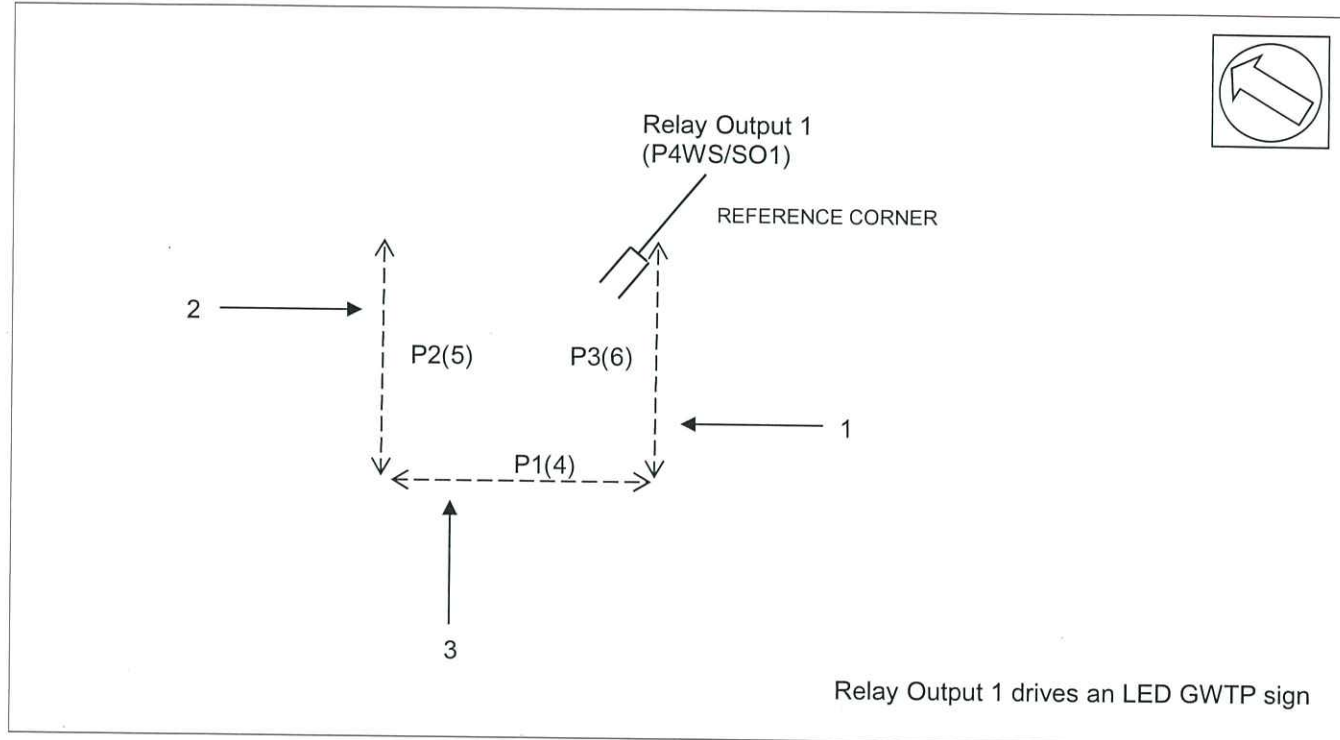
TRAFFIC MANAGEMENT CENTRE

| | |
|-------------------------------------|--|
| <input type="checkbox"/> | Checksum update only |
| <input type="checkbox"/> | Changes to trim or manual intervention features required |
| <input checked="" type="checkbox"/> | Please notify CAMERON TERRILL (x1210) on job completion. |

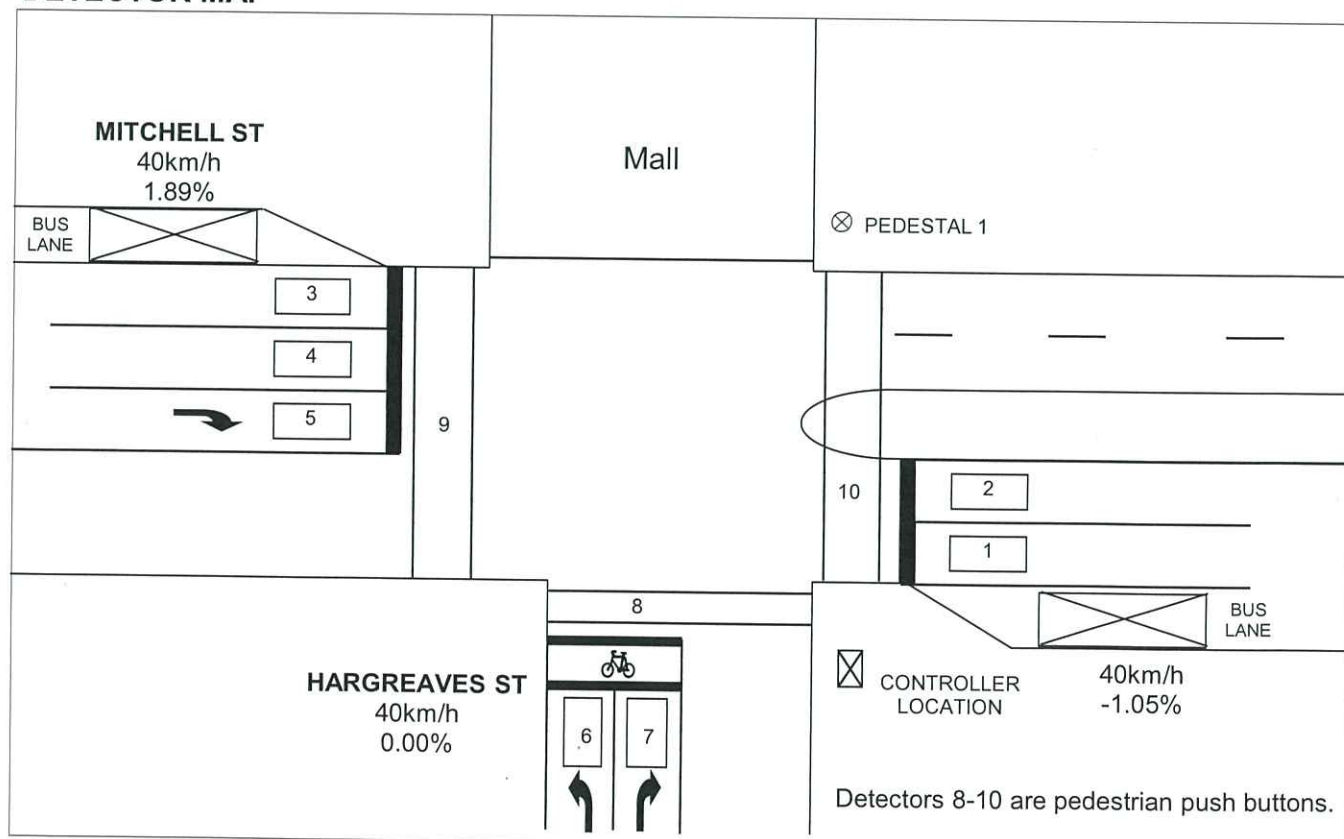
DATE PROM INSTALLED

| | | | | |
|-----------------|--|----------------|--------------------|---------------|
| SITE NAME | MITCHELL STREET/HARGREAVES STREET | | SITE NO. | 6270 |
| MUNICIPALITY | GREATER BENDIGO | DESIGNED BY | CAMERON TERRILL | DATE 16/07/21 |
| PLAN NO. | GB2840-1A | DESIGN CHECKED | <i>[Signature]</i> | DATE 23/07/21 |
| CONTROLLER TYPE | PSC 2002 | PROM CHECKED | <i>[Signature]</i> | DATE 16/08/21 |

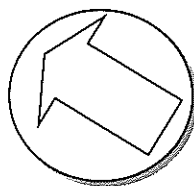
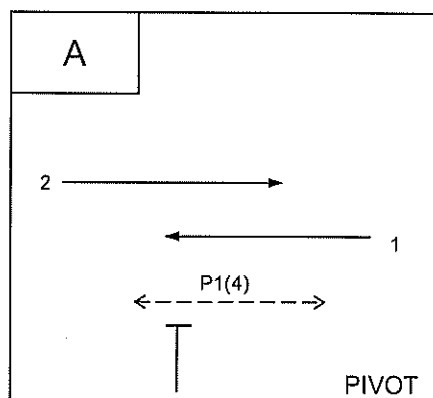
GROUP ALLOCATION



DETECTOR MAP

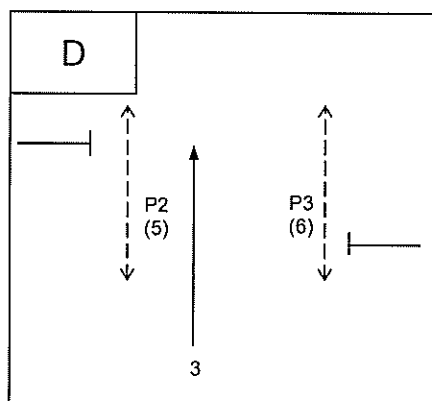
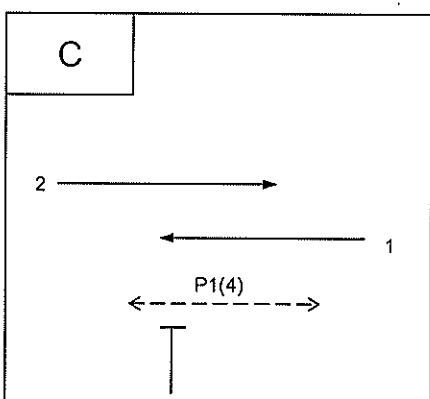
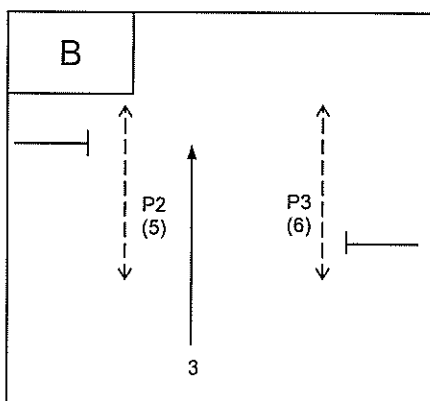


PHASING DIAGRAM



Refer General Notes

| PHASE | PROHIBITED PHASE CHANGES TO | REVERSION ON MAXIMUM | MAXIMUM V.I.G ON REVERSION |
|-------|-----------------------------------|-------------------------|-------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



V.A. SEQUENCE AB

DESIGNED BY: CAMERON TERRILL

DATE 16/07/21

DETECTOR FUNCTIONS

| DETECTOR No. | Internal / External | Input Number | CALL PHASE | LOCKING CALL | NON-LOCKING CALL | SET VIG ON PHASE | EXTEND PHASE | SPECIAL FUNCTION | | | DETECTOR ALARMS | | | | | | |
|--------------|---------------------|--------------|------------|--------------|------------------|------------------|--------------|------------------|-------------|---------------------|-----------------|---------|----------------|------------------|-----------|--------------|---------------------|
| | | | | | | | | Detector Type | Description | Refer Special Notes | DA Category | Disable | DA on S/C only | Fault Simulation | | | |
| | | | | | | | | | | | | | | Call & Extend | Call Only | Ignore Alarm | Refer Special Notes |
| 1 | I | 1 | A,C | ✓ | | | A,C | | | | 0 | | | ✓ | | | |
| 2 | I | 2 | A,C | ✓ | | | A,C | | | | 0 | | | ✓ | | | |
| 3 | I | 3 | A,C | ✓ | | | A,C | | | | 0 | | | ✓ | | | |
| 4 | I | 4 | A,C | ✓ | | | A,C | | | | 0 | | | ✓ | | | |
| 5 | I | 5 | A,C | ✓ | | | A,C | | | | 0 | | | ✓ | | | |
| 6 | I | 6 | B,D | ✓ | | | B,D | | | | 0 | | | ✓ | | | |
| 7 | I | 7 | B,D | ✓ | | | B,D | | | | 0 | | | ✓ | | | |
| 8 | E | 1 | A,C | | ✓ | | | P1 | | ✓ | 6 | | ✓ | | | | |
| 9 | E | 2 | B,D | | ✓ | | | P2 | | ✓ | 6 | | ✓ | | | | |
| 10 | E | 3 | B,D | | ✓ | | | P3 | | ✓ | 6 | | ✓ | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | |

DESIGNED BY: CAMERON TERRILL

DATE 16/07/21

APPROACH DEFINITIONS**PHASE APPROACHES**

| Approach No | EXTENDING DETECTORS | APPROACH TIMER AND TIMESETTING DEFINITION* | SIGNAL GROUP | APPROACH EXPIRY (EXPAP) | Refer Special Notes |
|-------------|---------------------|--|--------------|-------------------------|---------------------|
| 1 | 1,2 | A11,C11 | 1 | | |
| 2 | 3,4 | A22, C22 | 2 | | |
| 3 | 5 | A33, C33 | 2 | | |
| 4 | 6 | B11, D11 | 3 | | |
| 5 | 7 | B22, D22 | 3 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

* There are 8 approach timers and 4 approach timesettings available per phase:

- Where there are 4 or fewer approaches per phase, allocate one timesetting to each timer.

For example: A11. A22, A33, B11, C11.

- Where there are more than 4 approaches per phase, two or more timers must have the same timesetting.

For example: A11. A21, A32, A43, A54, B11.

SPECIAL APPROACHES

| Approach No | EXTENDING DETECTORS | APPROACH TIMESETTING | SIGNAL GROUP | DESCRIPTION | Refer Special Notes |
|-------------|---------------------|----------------------|--------------|-------------|---------------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

GENERAL NOTES

SUMMARY OF XSF FLAGS

(Communications Operation of XSF flags is required)

XSF1 – Allows the late introduction of P1 in AØ and CØ (Master).

XSF2 – When set, late start SG3 in BØ and DØ when P3 is demanded (5 seconds late start) (All modes).

XSF3 – Auto introduces P3 in BØ and DØ (Master & Flexi).

GENERAL OPERATION

1. Expire BØ and DØ late start period if there is no demand for P3 (with XSF2 set) or when XSF2 is not set.
2. If in AØ clear demands for CØ.
3. If in BØ clear demands for DØ.
4. If in DØ clear demands for BØ.

SIGNAL GROUP OPERATION

Signal Group 3

Late start SG3 in BØ and DØ when P3 is demanded and XSF2 is set.

PEDESTRIAN GROUP OPERATION

Pedestrian 1

P1 calls AØ and CØ.

P1 can introduce at the start of AØ and CØ and can overlap AØ ↔ CØ.

P1 auto introduces in AØ and CØ when Z- (Master & Flexi) is set.

In Master P1 can introduce at any time in AØ and CØ while XSF1 is set.

In Flexi, P1 walk is terminated in AØ by Q- (Q- is set 4 steps before the call pulse for BØ).

In Flexi, P1 walk is terminated in CØ by Q+ (Q+ is set 4 steps before the call pulse for DØ).

Pedestrian 2

P2 calls BØ and DØ.

P2 can introduce at the start of BØ and DØ.

P2 auto introduces in BØ and DØ when Z+ (Master & Flexi) is set.

Pedestrian 3

P3 calls BØ and DØ.

P3 calls P2.

P3 can introduce at the start of BØ and DØ.

P3 auto introduces in BØ and DØ when XSF3 (Master & Flexi) is set.

DETECTOR OPERATION

General

Clear vehicle demands during associated phase green and yellow.

OPERATION OF ILLUMINATED SIGNS

Relay Output 1 drives an LED "Give Way To Pedestrians" sign, facing vehicles turning right into Mitchell Street from Hargreaves Street during P3 Walk and Clearance when SG3 is green.

The Relay Output is activated by P4 Wait State (PSC2000/ATSC4/Alpha 16) or by Special Output 1 (Eclipse).

Both P4 Wait State and Special Output 1 are set in the controller personality.

DESIGN OF INTERGREEN AND PEDESTRIAN TIMES**INTERGREEN TIMES**

| PHASE | CLEARANCE DETAILS | | | LEGAL SPEED | DESIGN SPEED | | INTERGREEN | | |
|-------|-------------------|----------|------------|-------------|--------------|-----|------------|-----|-------|
| | GROUP TRANSITION | DISTANCE | GRADE (%)* | | YELLOW | RED | YELLOW | RED | TOTAL |
| A | 1 → P2 | 33.0 | -1.05 | 40 | 40 | 40 | 3.0 | 3.0 | 6.0 |
| B | 3 → 1 | 24.0 | 0.00 | 40 | 40 | 40 | 3.0 | 2.5 | 5.5 |
| C | 1 → P2 | 33.0 | -1.05 | 40 | 40 | 40 | 3.0 | 3.0 | 6.0 |
| D | 3 → 1 | 24.0 | 0.00 | 40 | 40 | 40 | 3.0 | 2.5 | 5.5 |
| E | → | | | | | | | | |
| F | → | | | | | | | | |
| G | → | | | | | | | | |

*Positive grade indicates an uphill approach & negative grade indicates a downhill approach. Specify negative grade values with a "-" prefix

PHASE SPECIAL ALL REDS AND SPECIAL MOVEMENT ALL REDS

| FROM PHASE | TO PHASE | CLEARANCE DETAILS | | DESIGN SPEED | ALL RED | PHASE or S.M. No** |
|------------|----------|-------------------|----------|--------------|---------|--------------------|
| | | GROUP TRANSITION | DISTANCE | | | |
| | | → | | | | |
| | | → | | | | |
| | | → | | | | |
| | | → | | | | |
| | | → | | | | |
| | | → | | | | |

** Specify where the timesetting is stored (the phase special all red or the special movement time setting number)

PEDESTRIAN TIMES

| PED | PHASE(S) | WALK | | | CLEARANCE | | | | MINIMUM SOLID DON'T WALK |
|-----|----------|-----------------|-------|---------|-----------------|-------|------|-----|-----------------------------------|
| | | DISTANCE (m) | TIME | | DISTANCE (m) | TIME | | | |
| | | | GRAPH | ADOPTED | | GRAPH | CL1 | CL2 | |
| 1 | A C | 12.0 | 8 | 8 | 12.0 | 8 | 8.0 | | 6.0 |
| 2 | B D | 18.0 | 8 | 8 | 18.0 | 12 | 12.0 | | 5.5 |
| 3 | B D | 16.0 | 8 | 8 | 16.0 | 11 | 11.0 | | 5.5 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

DESIGNED BY: CAMERON TERRILL

DATE 16/07/21

CONTROLLER TIMESETTINGS - 1

PHASE TIMESETTINGS

Front Panel Command: Phase No.Timesetting No (e.g. 3.2 accesses C phase late start)

| DESCRIPTION | Timesetting No | PHASE | | | | | | |
|-------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| | | A (1) | B (2) | C (3) | D (4) | E (5) | F (6) | G (7) |
| RED / YELLOW | 1 | - | - | - | - | - | - | - |
| LATE START | 2 | | 5 | | 5 | | | |
| MINIMUM GREEN | 3 | 10 | 8 | 10 | 8 | | | |
| INCREMENT | 4 | | | | | | | |
| MAXIMUM INITIAL GREEN* | 5 | | | | | | | |
| MAXIMUM EXTENSION GREEN | 6 | 25 | 15 | 0 | 0 | | | |
| EARLY CUT OFF | 7 | | | | | | | |
| YELLOW | 8 | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| ALL RED | 9 | 3.0 | 2.5 | 3.0 | 2.5 | | | |
| SPECIAL ALL RED | 10 | | | | | | | |
| GAP 1 | 11 | 2.5 | 2.5 | 2.5 | 2.5 | | | |
| GAP 2 | 12 | 2.5 | 2.5 | 2.5 | 2.5 | | | |
| GAP 3 | 13 | 2.5 | | 2.5 | | | | |
| GAP 4 | 14 | | | | | | | |
| HEADWAY 1 | 15 | 0.6 | 1.2 | 0.6 | 1.2 | | | |
| HEADWAY 2 | 16 | 0.6 | 1.2 | 0.6 | 1.2 | | | |
| HEADWAY 3 | 17 | 1.2 | | 1.2 | | | | |
| HEADWAY 4 | 18 | | | | | | | |
| WASTE 1 | 19 | 7 | 7 | 7 | 7 | | | |
| WASTE 2 | 20 | 7 | 7 | 7 | 7 | | | |
| WASTE 3 | 21 | 7 | | 7 | | | | |
| WASTE 4 | 22 | | | | | | | |

* Maximum Initial Green = Minimum Green + V.I.G.

PEDESTRIAN TIMESETTINGS

Front Panel Command: Pedestrian No.Timesetting No (e.g. 18.2 accesses P2 walk)

| DESCRIPTION | Timesetting No | PEDESTRIAN | | | | | | | |
|-------------|----------------|------------|---------|---------|---------|---------|---------|---------|---------|
| | | P1 (17) | P2 (18) | P3 (19) | P4 (20) | P5 (21) | P6 (22) | P7 (23) | P8 (24) |
| DELAY | 1 | - | - | - | - | - | - | - | - |
| WALK* | 2 | 8.0 | 8.0 | 8.0 | | | | | |
| CLEARANCE 1 | 3 | 8.0 | 12.0 | 11.0 | | | | | |
| CLEARANCE 2 | 4 | | | | | | | | |

* Minimum walk time - used in Isolated and Flexilink operation

For walk times in Masterlink operation, refer to slot data.

CONTROLLER TIMESETTINGS - 2

SPECIAL MOVEMENT TIMESETTINGS

Front Panel Command: B.Timesetting No (e.g. B.5 accesses Special Movement Timesetting No 5)

| Timesetting No | Timesetting (Range: 0-5) | FUNCTION |
|----------------|--------------------------|----------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

SPECIAL PURPOSE TIMESETTINGS

Front Panel Command: B.Timesetting No (e.g. B.19 accesses Special Movement Timesetting No 19)

| Timesetting No | Timesetting (Range: 0-200) | FUNCTION |
|----------------|----------------------------|---------------------------------------|
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | 0 | LIMIT GREEN WATCHDOG TIMER |
| 19 | 0 | SPECIAL FACILITY CONTROLS ALARM TIMER |
| 20 | 10 | ALL RED START UP INTERVAL |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |
| 40 | | |

SITE NAME **MITCHELL STREET/HARGREAVES STREET**SITE NO. **6270****CONTROLLER TIMESETTINGS - 3****PRESENCE TIMESETTINGS**

Front Panel Command: D.Detector No (e.g. D.7 accesses presence time for detector 7)

| DETECTOR No | TIMESETTING (Range: 0-10) |
|-------------|------------------------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |

NOTE: Set presence time to zero if the detector is not a presence detector

DAILY EVENT TIMESETTINGS

| FUNCTION | TIMESETTING |
|-----------------------------|-------------|
| Daily start time (Hours) | |
| Daily start time (Minutes) | |
| Daily finish time (Hours) | |
| Daily finish time (Minutes) | |

DESIGNED BY: CAMERON TERRILL

DATE 16/07/21

Document ID: 20688548 6270bRNWOpsheet

FLEXILINK OPERATION

PHASE SEQUENCES

| No | PHASE SEQUENCE |
|-----------|----------------|
| 1 (No Y+) | ABCD |
| 2 (Y+) | |

NOTES:

1. All phases must be specified in the phase sequence
2. Only specify phase sequence 2 if it is different from phase sequence 1.

LOOK AHEADS & RELEASES

| PHASE SEQUENCE 1 | | |
|------------------|------------------|---------|
| PHASE | LOOK AHEAD* | RELEASE |
| A | No | R- |
| B | Yes (to C, D, A) | Auto |
| C | No | R+ |
| D | Yes (to A) | Auto |
| E | | |
| F | | |
| G | | |

| PHASE SEQUENCE 2 | | |
|------------------|-------------|---------|
| PHASE | LOOK AHEAD* | RELEASE |
| A | | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |

* Specify the phases to which look ahead is permitted, e.g. Yes (to E, F, G, A)

INHIBIT PHASES

The following phases can be inhibited in flexilink by setting the call pulse one step before the call pulse of the next phase in sequence B,C,D

PULSE STEP LENGTH

☐ One Second ☒ Two Second

MASTERLINK & FLEXILINK SPECIAL FLAGS

| FLAG | FUNCTION |
|-----------|--|
| Y- Flexi | The site will operate in flexilink mode if the signal is continuously sent (C) or is used as an offset (e.g. 25) |
| Y- Master | |
| Y+ Flexi | PLACES A PERMANENT DEMAND FOR CØ |
| Z- Flexi | AUTO INTRODUCE P1 IN AØ and CØ |
| Z- Master | |
| Z+ Flexi | AUTO INTRODUCE P2 IN BØ and DØ |
| Z+ Master | |
| R- Flexi | AØ RELEASE PULSE |
| R+ Flexi | CØ RELEASE PULSE |
| Q- Flexi | TERMINATES P1 WALK IN AØ (Q- IS SET 4 STEPS BEFORE THE CALL PULSE FOR BØ) |
| Q+ Flexi | TERMINATES P1 WALK IN CØ (Q+ IS SET 4 STEPS BEFORE THE CALL PULSE FOR DØ) |

SCATS INTERSECTION DATA

The data shown on this page is typical data that can be used for testing controller operations.
This data is not necessarily applicable when the site is switched on in the field.

TYPICAL SLOT DATA

| | | | | | | |
|--------------------------------|------|--|--------|----|--|--|
| SLOT <i>n</i> = 4 , 4 , 3 | | | | | | |
| (phases) (split plans) (walks) | | | | | | |
| INT = | 6270 | | | | | |
| VC = | 5 | | | | | |
| CS = | | | | | | |
| COM = | NET | | | | | |
| PK = | ! | | | | | |
| S# = | | | | | | |
| LM = | | | | | | |
| RMN = | 0 | | | | | |
| DCL = | 0 | | | | | |
| | | | | | | |
| AT = | 6 | | | | | |
| BT = | 6 | | | | | |
| CT = | 6 | | | | | |
| DT = | 6 | | | | | |
| ET = | | | | | | |
| FT = | | | | | | |
| GT = | | | | | | |
| W1 = | 0AC | | W1 T = | 14 | | |
| W2 = | 8 | | W2 T = | 18 | | |
| W3 = | 8 | | W3 T = | 17 | | |
| W4 = | | | W4 T = | | | |
| W5 = | | | W5 T = | | | |
| W6 = | | | W6 T = | | | |
| W7 = | | | W7 T = | | | |
| W8 = | | | W8 T = | | | |
| PP1 = | 0,0A | | | | | |
| PP2 = | 0,0A | | | | | |
| PP3 = | 0,0A | | | | | |
| PP4 = | 0,0A | | | | | |

TYPICAL SPLIT PLAN DATA

| PHASE SEQUENCE 1 | | PHASE SEQUENCE 2 | | PHASE SEQUENCE 3 | |
|------------------|---------------|------------------|--------|------------------|--------|
| A | = 0PDB | A | = 0PDB | A | = 0PDB |
| B | = 25FSC | B | = 1C | B | = 30C |
| C | = 25ASFSTGNGD | C | = 1D | C | = 1D |
| D | = 25A | D | = 30A | D | = 1A |
| | | | | | |
| | | | | | |
| | | | | | |

TYPICAL VARIATION PARAMETERS

| | | | | | | | | |
|------|---|-----|------|---|--|------|---|--|
| VP1 | = | 3 | VP22 | = | | VP43 | = | |
| VP2 | = | 0 | VP23 | = | | VP44 | = | |
| VP3 | = | 1 | VP24 | = | | VP45 | = | |
| VP4 | = | 19 | VP25 | = | | VP46 | = | |
| VP5 | = | 3 | VP26 | = | | VP47 | = | |
| VP6 | = | 0 | VP27 | = | | VP48 | = | |
| VP7 | = | 3 | VP28 | = | | VP49 | = | |
| VP8 | = | 45 | VP29 | = | | VP50 | = | |
| VP9 | = | 152 | VP30 | = | | VP51 | = | |
| VP10 | = | 1 | VP31 | = | | VP52 | = | |
| VP11 | = | | VP32 | = | | VP53 | = | |
| VP12 | = | | VP33 | = | | VP54 | = | |
| VP13 | = | | VP34 | = | | VP55 | = | |
| VP14 | = | | VP35 | = | | VP56 | = | |
| VP15 | = | | VP36 | = | | VP57 | = | |
| VP16 | = | | VP37 | = | | VP58 | = | |
| VP17 | = | | VP38 | = | | VP59 | = | |
| VP18 | = | | VP39 | = | | VP60 | = | |
| VP19 | = | | VP40 | = | | VP61 | = | |
| VP20 | = | | VP41 | = | | VP62 | = | |
| VP21 | = | | VP42 | = | | | | |

GROUP CONFLICT TABLE

| PED NO | PED NO | | | | P1 | P2 | P3 | | | | | | | | | | | | | | | | | | |
|--------|----------|---|---|---|----|----|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | GROUP NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 1 | | | X | | X | X | | | | | | | | | | | | | | | | | | |
| | 2 | | | X | | X | X | | | | | | | | | | | | | | | | | | |
| | 3 | X | X | | X | | | | | | | | | | | | | | | | | | | | |
| P1 | 4 | | | X | | | | | | | | | | | | | | | | | | | | | |
| P2 | 5 | X | X | | | | | | | | | | | | | | | | | | | | | | |
| P3 | 6 | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | | | | | |

CHECKED: Nathan Corcoran DATE: 19/07/21

DESIGNED BY: CAMERON TERRILL

DATE 16/07/21