**Traffic Signal Detail Sheet Notes**

**Controller Programming Notes**

*Designer instructions: Notes 1 through 5 should be included on most plans. When a note is not needed, “N/A” shall be inserted beside the unused note number.*

1. Set malfunction management unit (MMU) for 10 sec flash.
2. Initialize in Ø2 and Ø6 green.
3. Enable dual entry. Activate Ø4 and Ø8.
4. Enable simultaneous gap out. Activate Ø2, Ø4, Ø6, and Ø8.
5. Enable Ped Re-Service and Rest in Walk for Ø2 and Ø6.

*Designer instructions: include note 5 when pedestrian signal heads are present on the mainline.*

1. Yellow Ball Trap Backup Prevention:
   1. Program Backup Prevent: Ø2 “ON”; inhibits: Ø1.
   2. Program Backup Prevent: Ø6 “ON”; inhibits: Ø5.

*Designer instructions: notes 6.A and/or 6.B are to be included as applicable where a mainline left turn phase exists and operates in protected/permitted mode.*

* 1. Program Backup Prevent: Ø1 calls Ø4\* **or** Ø8\* during Ø2 Green.
  2. Program Backup Prevent: Ø5 calls Ø4\* **or** Ø8\* during Ø6 Green.

*Designer instructions: note 6.C is to be included when Ø1 operates in protected only mode but Ø5 operates in protected/permitted mode. Note 6.D is to be included when the reverse is true. \*Select Ø4 or Ø8 based on whichever approach has the higher volume.*

1. Special left turn detection programming:
   1. Ø7 detection calls and extends Ø4 via controller detector programming.
   2. Ø3 detection calls and extends Ø8 via controller detector programming.

*Designer instructions: notes 7.A and/or 7.B are to be included when a minor street left turn phase operates in protected/permitted mode and is actuated by a first car detection zone or loop rather than a second car detection zone or loop. Do not include these notes if the left turn phase is actuated by a second car detection zone or loop or if the minor street left turn phase operates in protected only mode.*

**Span Diagram Notes**

1. The lowest signal head height in each direction shall be set at 17’ preferred, 16.5’ minimum. adjust the span accordingly.
2. The dimensions shown on the span diagram are estimates. The distance between the heads shall be as indicated.

*Designer instructions: place these notes under the span diagram.*

**Detection Chart Note**

Loops are to be hooked to the unit and channel as indicated to enhance loop performance and decrease loop crosstalk.

*Designer instructions: include only if applicable and place under the detection chart.*

**Wiring Diagram Notes**

1. Loop detector lead-in cable shall be used for the pedestrian pushbuttons. Ground the shield only at the cabinet.
2. ALL LOOP SPADE TERMINALS SHALL HAVE THE LOOP HOMERUN WIRE SOLDERED TO THE SPADE TERMINAL. THE LOOP HOMERUN WIRES SHALL BE TWISTED TOGETHER AS CLOSE TO THE SPADE TERMINAL SCREWS AS POSSIBLE. THE CABLE DRAIN WIRE SHALL BE CONNECTED TO THE CLOSEST GROUNDING POINT. SOLDER THE LOOP WIRE AND HOMERUN CONNECTION.

*Designer instructions: include only if applicable and place under or near the wiring diagram.*

7/1/24