



# NEW CONSTRUCTION TRAFFIC SIGNAL INSPECTION REPORT

**Intersection:** \_\_\_\_\_  
**Date / Time:** \_\_\_\_\_  
**Technician:** \_\_\_\_\_

***Legend: 1 = no problem found 2 = problem found 3= not applicable***

## A Cabinet Equipment.

1. \_\_\_\_ Visually inspect the cabinet for damage.
2. \_\_\_\_ Visually inspect lightning surge protection for damage.
3. \_\_\_\_ Check and record the safety ground rod for conductivity. \_\_\_\_\_ Ohms.
4. \_\_\_\_ Check that cabinet drawings are legible and in good condition.

## B Cabinet Service.

1. \_\_\_\_ Check all breaker connections.
2. \_\_\_\_ Check all ground connections.
3. \_\_\_\_ Check and record service voltage. \_\_\_\_\_
4. \_\_\_\_ Check and record service amperage. \_\_\_\_\_

## C Cabinet General Operation

1. \_\_\_\_ Check thermostat and fan operation.
2. \_\_\_\_ Check for GFCI convenience receptacle.
3. \_\_\_\_ Check relays.
4. \_\_\_\_ Check cabinet light.
5. \_\_\_\_ Check for proper load switch seating.
6. \_\_\_\_ Check all terminal screws and connections for tightness and discoloration.

## D Cabinet Switch Operation.

1. \_\_\_\_ Check for Police Switches.
2. \_\_\_\_ Check for Cabinet switches.

Comments: \_\_\_\_\_  
\_\_\_\_\_

E Cabinet Mechanics.

1.  Inspect lock mechanism and hinges.
2.  Check anchor bolts.
3.  Check cabinet documentation.
4.  Check cabinet weatherproofing.
5.  Check for cabinet filter.

F Controller.

1.  New Controller SN# \_\_\_\_\_.
2.  Check controller settings with intersection timing sheet.
3.  Check for correct time and date.
4.  Insure all calls are placed on each phase and serviced.
5.  Check 24V DC controller output.
6.  Measure controllers monitor output.

G Conflict Monitor.

1.  New Conflict Monitor SN# \_\_\_\_\_.
2.  Insure Load Switch and traffic signal indications are the same.
3.  Check for correct time and date.

H Vehicle Detection.

1.  Check amplifiers for proper settings and operation.

I Pedestrian Detection.

1.  Inspect pedestrian push buttons.
2.  Operate each push button and check for proper operation.
3.  Inspect pedestrian's signs and markings.

J Mast Arm Intersections.

1.  Check all exposed signal cable for jacket and insulation damage.
2.  Check all nuts and bolts on mast arm and signal heads for proper tightness.
3.  Check hand hole covers for proper installation.
4.  Measure and record height of lowest point of signal to roadbed beneath. \_\_\_\_\_ FT/IN

K Signal Indications.

1.  Check alignment of signal heads.
2.  Make sure signal head has drip loop.
3.  Check condition and mounting of back plates.

Comments: \_\_\_\_\_  
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\_\_\_\_\_

L Signal Heads.

1. \_\_\_\_ Check reflectors.
2. \_\_\_\_ Check signal door gasket.
3. \_\_\_\_ Check signal head lenses.
4. \_\_\_\_ Check hoods and louvers.
5. \_\_\_\_ Check signal door hinges and wing nut attachments.
6. \_\_\_\_ Check signal head hardware for damage.
7. \_\_\_\_ Check all electrical connections.
8. \_\_\_\_ Check head visibility and alignment.

M Traffic Control Signs and Markings.

1. \_\_\_\_ Check signals, signs, and markings for agreement.

N Interconnect.

1. \_\_\_\_ Check overall operation of installed system.

O Video Detection.

1. \_\_\_\_ Check for proper zone alignment (zone should be located in the lower 2/3 of the screen) and assignment (phase and channel).
2. \_\_\_\_ Check zones to insure proper vehicle detection and controller receiving calls.
3. \_\_\_\_ Check video wiring/coax connections for all cameras.
4. \_\_\_\_ Using #10 welding shield to simulate night operation. Check for proper operation.
5. \_\_\_\_ Verify video does not show horizon within view.
6. \_\_\_\_ Verify quality threshold is set to 4 with quality timeout set to 2 minutes.
7. \_\_\_\_ Check for proper alignment of all cameras.
8. \_\_\_\_ Check camera brackets and hardware for tightness and proper mounting.

P Opticom.

1. \_\_\_\_ Check channels for proper phasing using portable emitter.
2. \_\_\_\_ Test for communication with all detectors (push selector till F is displayed and push toggle switch to high). Verify all detectors in use should flash.
3. \_\_\_\_ Check detectors for proper alignment (all detectors).
4. \_\_\_\_ Check detector brackets and hardware for tightness and proper mounting.
5. \_\_\_\_ Check wiring for proper connection within detector.
6. \_\_\_\_ Verify weep holes have been opened.

Comments: \_\_\_\_\_  
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