

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 1: Structures**

**Signal Number:**  **Location:**   
**Date:**  **Inspected By:**  **Checked By:**

| <b>STRUCTURES:</b>  |  |                   | <b>POINTS</b>    | <b>SCORE</b> |           |
|---|--|-------------------|------------------|--------------|-----------|
| Signal Age:   | 0-10 yrs: 0 pts.   | 11-20 yrs: 5 pts. | >20 yrs: 10 pts. | 0-10         | 10        |
| Design Type:  | (mast-arm = 0 pts, span wire = 5 pts)  |                   |                  | 0-5          | 0         |
| Pole Type:  | (painted = 5 pts, galvanized = 0 pts)  |                   |                  | 0-5          | 5         |
| General condition of the poles:   | (good = 0 pts, fair = 5 pts, poor = 10 pts)                                      |                   |                  | 0-10         | 5         |
| Paint coating condition:  | (good = 0 pts, fair = 5 pts, poor = 10 pts)                                      |                   |                  | 0-10         | 5         |
| Any abnormal bending or pole rake?  | (moderate = 5 pts, severe = 10 pts)  |                   |                  | 0-10         | 0         |
| Pole back guys in use?  | (1 back guy = 3 pts, 2 back guys = 5 pts, 3 or more back guys = 10 pts)          |                   |                  | 0-10         | 0         |
| Any abnormal bending or sagging of the mast arms?                             | (yes = 5 pts, no = 0 pts)  |                   |                  | 0-5          | 0         |
| Any signs or rust or corrosion at or near the mast arm mounting plates?       | (yes = 5 pts, no = 0 pts)  |                   |                  | 0-5          | 0         |
| Any signs of rust on the span wires?  | (surface area: 25% or less = 5 pts, 25%-50% = 10 pts, greater than 50% = 15 pts) |                   |                  | 0-15         | 0         |
| Any abnormal sagging of the span wires?                                       | (1 span = 5pts, 2 or more spans = 10 pts)  |                   |                  | 0-15         | 0         |
| Any span wire splices?  | (1 splice = 5 pts, 2 splices = 10 pts, 3 or more splices = 15 pts)               |                   |                  | 0-15         | 0         |
| Any signs of erosion around any of the pole bases?                            | (yes = 5 pts, no = 0 pts)  |                   |                  | 0-5          | 0         |
| Base plate mounted directly to foundation with no leveling nuts?              | (yes = 5 pts, no = 0 pts)  |                   |                  | 0-5          | 0         |
| Rust or corrosion on the base plate, anchor bolts, or nuts?                   | (severe 25 pts, moderate 15 pts, light 5 pts, no 0 pts)                          |                   |                  | 0-25         | 0         |
| Is the pole base welded steel or cast iron?                                   | (cast iron = 10pts)  |                   |                  | 0-10         | 0         |
| Any signs of cracking at or near base plate welds?                            | (10 pts any signs of cracking)   |                   |                  | 0-10         | 0         |
| Base plates buried?   | (yes + 10 pts, no = 0 pts)   |                   |                  | 0-10         | 0         |
| Any exposed rebar or abnormal exposure of the anchor bolts?                   | (yes = 5 pts, no = 0 pts)  |                   |                  | 0-5          | 0         |
| Any abnormal cracking or spalling of concrete on any of the pole foundations? | (moderate = 3 pts, severe = 5 pts)   |                   |                  | 0-5          | 0         |
| <b>OTHER:</b>   |  |                   |                  |              |           |
| Any apparent violations of the Maryland High Voltage Act?                     | (yes = 10 pts)   |                   |                  | 10           | 0         |
| Any equipment obstructions to walking or biking paths?                        | (1 obstruction = 1 pt, 2 obstructions = 3 pts, 3 or more = 5 pts)                |                   |                  | 0-5          | 0         |
| Cabinet conduit capacity:   | (Below = 0 pt, At = 3 pts, Above = 5 pts)  |                   |                  | 0-5          | 3         |
| Overall condition of the hand boxes:  | (Good = 0 pt, Fair = 3 pts, Poor = 5 pts)  |                   |                  | 0-5          | 0         |
| Conduit fill capacity in hand boxes:  | (Below = 0 pts, At = 3 pts, Above = 5pts)  |                   |                  | 0-5          | 3         |
| General condition of the electrical service:                                  | (Good = 0 pts, Fair = 3 pts, Poor = 5pts)  |                   |                  | 0-5          | 0         |
| <b>OVERALL SCORE:</b>   |  |                   |                  |              | <b>31</b> |

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 2: Supplemental Items**

|                         |            |                                     |             |                          |             |                                     |
|-------------------------|------------|-------------------------------------|-------------|--------------------------|-------------|-------------------------------------|
| <b>CONTROLLER TYPE:</b> | TS 1       | <input type="checkbox"/>            | TS 2 Type 1 | <input type="checkbox"/> | TS 2 Type 2 | <input checked="" type="checkbox"/> |
| <b>CABINET TYPE:</b>    | TS 1       | <input checked="" type="checkbox"/> | TS 2        | <input type="checkbox"/> | Other       | <input type="checkbox"/>            |
|                         | Base Mount | <input checked="" type="checkbox"/> | Pole Mount  | <input type="checkbox"/> |             |                                     |

| <b>SUPPLEMENTAL ITEMS:</b>   | <b>POINTS</b> | <b>SCORE</b> |
|--|---------------|--------------|
| Is the cabinet in an accessible location? (No = 1 pt)  | 0-1           | 0            |
| Cabinet condition: (Good = 0 pts, Fair = 1 pt, Poor = 2 pts)   | 0-2           | 0            |
| Per the MUTCD, are there two indications per movement? (1 pt per movement not meeting this requirement)                | 0-4           | 1            |
| Per the MUTCD, are there near-side signal heads were necessary? (1 pt per approach not meeting this requirement)       | 0-4           | 0            |
| Are the pedestrian indications appropriately aligned with crosswalks? (1 pt per crossing not meeting this requirement) | 0-4           | 0            |
| Are pedestrian push buttons accessible? (1 pt for each button that is not accessible)                                  | 0-8           | 0            |
| Are there any utility lines touching mast-arms or span wires? (1 pt per mast-arm or span wire)                         | 0-4           | 0            |
| Are there any signal heads that are obstructed by utility line? (1 pt per approach with utility line obstruction)      | 0-4           | 0            |
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|  |               |              |
| <b>SUPPLEMENTAL SCORE:</b>   |               | <b>1</b>     |

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 3: Maintenance Items**

| <b>MAINTENANCE ITEMS:</b>   | <b>Yes/No</b>           |
|---|-------------------------|
| Cabinet door hinge or lock damaged?   | n                       |
| Cabinet conduits plugged?   | n                       |
| Rodent or bug infestation within the cabinet?                                     | n                       |
| Is the cabinet filter present?  | y                       |
| Is the exterior cabinet base caulked?   | y                       |
| Does each pole have a rodent barrier?   | y                       |
| Are all the tightening and leveling nuts present and tight?                       | y                       |
| Are all mast-arm flange bolts present?  | y                       |
| Are all pole access covers present and secured?                                   | y                       |
| Do all "T" bases appear to be level and tight?                                    | y                       |
| Does there appear to be any LED degradation?                                      | n                       |
| Do any traffic signal indications appear to fall below MUTCD height requirements? | n                       |
| Are all hand boxes accessible?  | y                       |
| Are all hand box lids present and secure?   | y                       |
|   | <b>G/F/P</b>            |
| Condition of stop lines:  | (Good, Fair, Poor) Good |
| Condition of crosswalks:  | (Good, Fair, Poor) Fair |
| Condition of regulatory/warning signs:  | (Good, Fair, Poor) Good |

**NOTES:**

West Median Pole: loose tightening bolts. Overgrowth needs to be trimmed away from this structure.

Paint coating in fair condiion, with light rust beginning to form in some areas.