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| ODOT RAMP METER ANNUALINSPECTION CHECKLIST |
| Location |   | Date |  |  |

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| Inspector |  |  |  |

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| Controller/Make/Model No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cabinet Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
|  Meets |  Deficient |  N/A | **OPERATIONAL CHECKS:** |
|[ ] [ ] [ ]  1. Are the loop detectors picking up the correct inputs? Demand Loops, Passage Loops, Queue Loops |
|[ ] [ ] [ ]  2. Are the DC isolators showing inputs from the radar unit? |
|[ ] [ ] [ ]  3. Is the radar detecting all lanes of traffic? Confirm Software |
|[ ] [ ] [ ]  4. Do the ramp meter controller and the radar have communications? |
|[ ] [ ] [ ]  5. Does the “Ramp Metered When Flashing” sign work and beacons flash simultaneously?  |
|[ ] [ ] [ ]  6. Do the signal heads work? |
|[ ] [ ] [ ]  7. For two lane ramp meters, do the signal heads work properly with the loops for their respective lanes? i.e. Right lane heads work with right lane loops |
|[ ] [ ] [ ]  8. When metering, do the signals rest in red?  |
|[ ] [ ] [ ]  9. When metering, do the demand loops trigger a green indication? |
|[ ] [ ] [ ]  10. When metering, do the passage loops trigger a red indication? |
| **Comments**: |  |

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|  Meets |  Deficient |  N/A | **CONTROLLER & CABINET:** |
|[ ] [ ] [ ]  1. Is the work pad in place and in good condition? *No major cracking* |
|[ ] [ ] [ ]  2. Is all field wiring neatly arranged and routed to prevent being pinched when the cabinet door is closed and free of debris?  |
|[ ] [ ] [ ]  3. Are all tags or labels properly installed and legible calling out the lane and position of the field detectors?  |
|[ ] [ ] [ ]  4. Are the detector field wiring inputs connected to a side mounted terminal block?  |
|[ ] [ ] [ ]  5. Are all wire terminals tight?  |
|[ ] [ ] [ ]  6. Is the conduit sealed with a removable sealing compound? *No foam sealer!*  |
|[ ] [ ] [ ]  7. Is the cabinet air filter in place and clean? Front and/or Back  |
|[ ] [ ] [ ]  8. Are there operation manuals and cabinets prints in the cabinet? |
| **Comments**:  |  |

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|  Meets |  Deficient |  N/A | **DETECTOR LOOPS:** |
|[ ] [ ] [ ]  1. Are the passage and demand loops in good condition? *Sealed well. No Loop cable exposed. No rutting or cracking of pavement around the loops* |
|[ ] [ ] [ ]  2. Are the queue loops in good condition? *Sealed well. No Loop cable exposed. No rutting or cracking of pavement around the loop* |

 **Comments:**

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|  Meets |  Deficient |  N/A | **RADAR DETECTION:** |
|[ ] [ ] [ ]  1. Is there a drip loop in the cable from the radar unit to the conduit entrance? |
|[ ] [ ] [ ]  2. Are all conduit entrances, ends of bracket arms, etc. sealed? Grommets in place, if necessary? |
|[ ] [ ] [ ]  3. Are the cables tagged?  |
|[ ] [ ] [ ]  4. Is the Ethernet to serial converter in place? |
|[ ] [ ] [ ]  5. Is there communication at the radar breakout box? If so, what type? RS-232, Ethernet, or both |

 **Comments:**

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|  Meets |  Deficient |  N/A | **PEDESTAL SUPPORTS:** |
|[ ] [ ] [ ]  1. Is all the hardware on the supports: caps, covers, etc.  |
|[ ] [ ] [ ]  2. Are all unused holes plugged?  |
|[ ] [ ] [ ]  3. Are all conduits into the pedestal sealed?  |
| **Comments**: |  |

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|  Meets |  Deficient |  N/A | **POWER SERVICE:** |
|[ ] [ ] [ ]  1. Is the lock in place on the “Service Disconnect” switch?  |
|[ ] [ ] [ ]  2. All service hardware shall have connections sealed as to have no water leaks?  |
|[ ] [ ] [ ]  3. Does the Power Service have Deox on the lugs/terminations? |
|[ ] [ ] [ ]  4. Does the disconnect enclosure have a padlock on it? |

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|  Meets |  Deficient |  N/A | **SIGNAL HEADS:** |
|[ ] [ ] [ ]  1. Are all signal heads aligned properly? |
|[ ] [ ] [ ]  2. Are all set screws and locking nuts tight? |
|[ ] [ ] [ ]  3. Are all unused openings plugged? |
| **Comments:** |  |

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|  Meets |  Deficient |  N/A | **PULL BOXES:** |
|[ ] [ ] [ ]  1. Are there bolts in the pull box lid? *Shall be countersunk hex head or socket head cap screws*  |
|[ ] [ ] [ ]  2. Are all the openings, around conduits or knockouts, sealed?  |
|[ ] [ ] [ ]  3. Are all tags/labels in place and legible?  |

 **Comments:**

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|  Meets |  Deficient |  N/A | **PAVEMENT MARKING AND SIGNING:** |
|[ ] [ ] [ ]  1. Is the stop line located between the demand and passage loops? |
|[ ] [ ] [ ]  2. Are the “Stop Here On Red” signs placed at the stop line on both sides? |
|[ ] [ ] [ ]  3. Are the “One Vehicle per Green” Signs installed on both sides of the ramp? |
| **Comments:** |  |

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| 1 | 2 | 3 | 4 | **OVERALL CONDITION & SCORE** |
|[ ] [ ] [ ] [ ]  *1-Element performs intended function with high degree of reliability (Good); Requires no planned feasible action2-Element performs intended function with small reduction in reliability (Fair); Requires repair and/or increase inspection3-Element performs intended function with significant reduction in reliability (Poor); Requires repair or replacement of element within next year4-Element does not perform intended function with any degree of reliability (Critical); Requires immediate repair or replacement of element* |
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 **Comments:**