# Exchange Requirement

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| Name | Sign condition report submission |

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| --- | --- |
| Identifier | ER.S.100 |

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| --- | --- | --- |
| Change Log | | |
| 2016-07-29 | draft | ttle@iastate.edu |

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| --- | --- | --- | --- |
| Project Stage | 0 | Programming and planning |  |
| 1 | Design |  |
| 2 | Letting |  |
| 3 | Construction |  |
| 4 | Operation and maintenance | **✓** |
| 5 | Disposal |  |

**General Description**

Field staff needs to submit a report regarding the condition of signs to the corresponding maintenance garage to evaluate sign reconstruction, replacement and maintenance needs.

**Exchange disciplines**

* ***Sender:*** Field staff
* ***Receiver:*** Maintenance garage/District maintenance office

**Information to be exchanged**

Information required to be collected and transferred by the field staff:

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| --- | --- | --- | --- |
| **Data attribute group** | **Data attribute** | **Description** | **Comments** |
| Sign identifier | DOT stock number | Each sign is assigned a stock number |  |
| Iowa MUTCD | Iowa Manual on Uniform Traffic Control Devices |  |
| Federal MUTCD | Federal Manual on Uniform Traffic Control Devices |  |
| Sign installation | Date installed |  |  |
| Sign location | District | Iowa district number |  |
| County | County number |  |
| Garage | Iowa garage maintenance number |  |
| Route ID | For instance, I-29 |  |
| Milepost | Milepost of sign |  |
| GPS Latitude | GPS coordinate |  |
| GPS Longitude | GPS coordinate |  |
| Sign face direction | Direction of sign face (E, N, NE, etc.) |  |
| Travel direction | Direction of travel along a specific route |  |
| Side of road | Side of road where post is located, relative to direction of travel |  |
| Sign color | Sign color | Color of sign |  |
| Sign size | Sign width | Width of sign |  |
| Sign height | Height of sign |  |
| Sign area | Area of sign |  |
| Sign message | Sign message | Message of sign |  |
| Sign type | Sign type | Type of sign (regulatory, warning, guide, school, rest area, construction) |  |
| Subcategory | Subcategory within sign type |  |
| Sign condition | Day condition date | Date in which most recent day condition rating was recorded |  |
| Day time rating | Most recent daytime sign rating (excellent, good, poor) |  |
| Day Retroreflectivity | Most recent day retroreflectivity reading |  |
| Night condition date | Date in which most recent night condition rating was recorded |  |
| Night time rating | Most recent nighttime sign rating (excellent, good, poor) |  |
| Night Retroreflectivity | Most recent night retroreflectivity reading |  |
| Flag Beacon | Indicates whether or not a flag or beacon is present (yes, no, both) |  |
| Replacement notes | Deficiency | Noted deficiency for replacement (whether damage, design change, etc.) |  |
| Sign material | Sheeting | Sign sheeting material (diamond grade, engineering grade, high intensity, prismatic high intensity) |  |
| Blank material | Blank material of the sign (extruded aluminum, metal, wood) |  |
| Post installation | Post create date | Date post was installed |  |
| Post type | Post type | Type of post (e.g., wood, U-Chan,) |  |
| Post type subtype | Subtype values used to drive data collection efforts utilizing the collector application |  |
| Post dimensions | Post size | Size of post (e.g., 4”x6’) |  |
| Post length | Length of post |  |
| Post quantity | Number of posts | Number of posts installed at an assembly location |  |
| Number of signs | Number of sign installed at a location |  |
| Post condition | Post rating | Rating of evaluator on the condition of the post (Excellent, Good, Poor) |  |
| Post status | Status of post (New post, replace post, move post, retire post, replace and move post, number of signs changed on post) |  |
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