### COMMON INVENTORY ITEMS

#### Location
- **Item 1**: County Name
- **Item 2**: Town or Township Name
- **Item 3**: Road System
  - Township
  - County
  - County Secondary
  - Other
- **Item 4**: Small Structure Local Identifier
- **Item 5**: Sequence Number
- **Item 6**: Inventoried By
- **Item 7**: Inventory Date
- **Item 8**: Latitude
- **Item 9**: Longitude
- **Item 10**: Small Structure Number
  - (to be assigned later)

#### Road Attributes
- **Item 11**: Road Name
- **Item 12**: Road Maintenance Level
  - Full Maintenance
  - Minimum Maintenance
  - No Maintenance
- **Item 13**: Road Surface
  - Dirt
  - Gravel
  - Concrete
  - Blotter
  - Other
- **Item 14**: Number Served
  - Not a Dead End
  - No homes, farms, ranches
  - 1 home, farm, or ranch
  - More than 1 home, farm, or ranch
- **Item 15**: Detour Length
  - __________ miles

### CULVERT INVENTORY ITEMS

#### Culvert Attributes
- **Item 16**: Culvert Purpose
  - Drainage
  - Livestock Passage
  - Drainage & Livestock Passage
  - Pedestrian or Bicycle Trail
  - Other
- **Item 17**: Culvert Location
  - Culvert lies under mainline
  - Culvert lies under approach
  - Other

### Culvert Dimensions
- **Item 18**: Water Overtop Frequency
  - Unknown
  - Every five years
  - Multiple times per year
  - Every ten years
  - Yearly
  - Every two years
  - Rarely or never
- **Item 19**: Culvert Type
  - Box Culvert
  - Pipe
  - Other
- **Item 20**: Number of Cells
  - __________ cells
- **Item 21**: Material
  - Precast concrete
  - PP (polypropylene)
  - Cast-in-place concrete
  - PVC
  - Galvanized steel
  - Wood
  - Aluminized steel
  - Masonry
  - Steel
  - HDPE
  - Other
- **Item 22**: Lining
  - Lining Present
  - No Lining

#### Culvert Condition
- **Item 23**: Shape
  - Round
  - Rectangle
  - Pipe Arch
  - Cattle Pass
  - Arch
  - Open Bottom
  - Elliptical
  - Other
- **Item 24**: Span
  - __________ inches
- **Item 25**: Rise
  - __________ inches
- **Item 26**: Barrel Length
  - __________ feet
- **Item 27**: Length Along Roadway
  - __________ feet
- **Item 28**: Skew Angle
  - __________ degrees
- **Item 29**: Cover Height
  - __________ feet
- **Item 30**: Crushing
  - None
  - Mild
  - Moderate
  - Severe
- **Item 31**: Joint Separation
  - None
  - Mild
  - Moderate
  - Severe
- **Item 32**: Infiltration
  - None
  - Mild
  - Moderate
  - Severe
- **Item 33**: Material Deterioration
  - None
  - Mild
  - Moderate
  - Severe
- **Item 34**: Damage
  - None
  - Mild
  - Moderate
  - Severe
- **Item 35**: Plugging
  - None
  - Mild
  - Moderate
  - Severe
**South Dakota Small Structure Inventory Form**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Embankment Settlement</td>
<td>None, Moderate, Severe</td>
</tr>
<tr>
<td>37</td>
<td>Road Surface Distress</td>
<td>Road surface distress present, No road surface distress present</td>
</tr>
<tr>
<td><strong>Culvert Inlet</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Inlet End Treatment</td>
<td>None, Flared End, Sloped End, Sectional End, Headwall</td>
</tr>
<tr>
<td>39</td>
<td>Perched Inlet</td>
<td>Yes, No</td>
</tr>
<tr>
<td>40</td>
<td>Inlet Water Level</td>
<td>None, Water level below culvert, Culvert partially filled, Culvert submerged</td>
</tr>
<tr>
<td>41</td>
<td>Inlet Erosion Control</td>
<td>None, Rip rap, Gabion baskets, Geogrid, Energy dissipator</td>
</tr>
<tr>
<td>42</td>
<td>Inlet Erosion</td>
<td>None, Mild, Moderate, Severe</td>
</tr>
<tr>
<td>43</td>
<td>Inlet Erosion Outside of Right of Way</td>
<td>Erosion extends outside of right of way, No erosion outside of right of way</td>
</tr>
</tbody>
</table>

**Culvert Outlet**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>Outlet End Treatment</td>
<td>None, Flared End, Sloped End, Sectional End, Headwall</td>
</tr>
<tr>
<td>45</td>
<td>Perched Outlet</td>
<td>Yes, No</td>
</tr>
<tr>
<td>46</td>
<td>Outlet Water Level</td>
<td>None, Water level below culvert, Culvert partially filled, Culvert submerged</td>
</tr>
<tr>
<td>47</td>
<td>Outlet Erosion Control</td>
<td>None, Rip rap, Gabion baskets, Geogrid, Energy dissipator, Drop Structure, Lined Channel</td>
</tr>
<tr>
<td>48</td>
<td>Outlet Erosion</td>
<td>None, Mild, Moderate, Severe</td>
</tr>
<tr>
<td>49</td>
<td>Outlet Erosion Outside of Right of Way</td>
<td>Erosion extends outside of right of way, No erosion outside of right of way</td>
</tr>
</tbody>
</table>

*Items 50 – 64 are used only for Small Bridges*

**SMALL STRUCTURE SUMMARY ITEMS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Year Constructed</td>
</tr>
<tr>
<td>66</td>
<td>Overall Condition</td>
</tr>
<tr>
<td>67</td>
<td>Other Comments</td>
</tr>
<tr>
<td>68</td>
<td>Traffic Status</td>
</tr>
<tr>
<td>69</td>
<td>Axle Weight Load Posting</td>
</tr>
<tr>
<td>70</td>
<td>Load Posting for Single Unit Vehicles</td>
</tr>
<tr>
<td>71</td>
<td>Load Posting for Combination Vehicles</td>
</tr>
<tr>
<td>72</td>
<td>Load Rating Evaluation Recommended</td>
</tr>
<tr>
<td>73</td>
<td>Further Inspection Needed</td>
</tr>
</tbody>
</table>

**Photographs** (Optional) Identify the filename of each photograph image file

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>Roadway Photograph</td>
</tr>
<tr>
<td>75</td>
<td>Inlet Photograph</td>
</tr>
<tr>
<td>76</td>
<td>Upstream Photograph</td>
</tr>
<tr>
<td>77</td>
<td>Outlet Photograph</td>
</tr>
<tr>
<td>78</td>
<td>Downstream Photograph</td>
</tr>
</tbody>
</table>

*Instructions: Use this form with the Small Structure Inventory Handbook. Use a separate form for each Small Structure inventoried. (If a group of culverts consists of different types, sizes, or conditions, use a separate form for each.) Information on this form must be entered into the Small Structure Inventory Spreadsheet for submission to the Statewide Small Structure Database.*