# ORD Survey Data Checklist

As outlined in TDOT’s ***Requirements for Model-Centric Design*** document, there are up to five (5) expected deliverables from the Survey phase to Design found in Appendix A. Survey Deliverables Workflow. (Also detailed in the Survey (ORD) Manual Appendix A):

1. **Aerial Survey Data** file (**Aerial Model.dgn** from the **3D seed**) contains the existing graphics imported from the aerial survey. This is only required as a survey deliverable on projects with an aerial survey included in the scope.
2. **Field Survey Data** file (**Model.dgn** from the **3D seed**) contains the existing graphics imported from the original Field Book(s) (e.g. utilities (plan), pavement edges, buildings, vegetation, etc.).
3. **Terrain Model** file (**Terrain.dgn** from the **3D seed**) contains the existing DTM features (e.g. contours, triangles, etc.). If a project requires a Field Survey Data file and an Aerial Survey Data file, the Terrain Model file should combine both the field survey TIN file and the aerial survey TIN file.
4. **Preliminary Geometry** file (**Alignment.dgn** from the **2D seed**) contains the survey preliminary centerline horizontal alignment with profile, existing right-of-way lines, property lines, parcel lines, property owners, tract numbers, and projected existing drainage and utilities (profile only).
5. **Utility Model** file (**Utility.dgn** from the **2D seed**) contains the existing drainage and utility models (plan only), delineated drainage areas, and drainage/hydraulic data blocks.

The following ORD Survey Data Checklist (as well as the project information table) should be completed by surveyors/survey team, prior to submitting project files to the design manager. This completed document should accompany the project files during the formal submittal package. *(Note that this checklist does not substitute the survey checklist for field and office procedures, as referenced and outlined in the TDOT Survey Manual, but instead accompanies it and other procedural documents in place.)*

### Project Information

|  |  |
| --- | --- |
| **County:** | Choose an item. |
| **Federal Project No.:** | Click or tap here to enter text. |
| **PIN:** | Click or tap here to enter text. |
| **Description:** | Click or tap here to enter text. |
| **Surveyed By:** |  |
| **Submitted by TDOT Regional Survey Manager:** | Click or tap here to enter text. |
| **Submission Date:** | Click or tap here to enter text. |
| **Comments**:  Click or tap here to enter text. | |

### ORD Survey Data Checklist

Instructions: In the Verified column, select either Yes, No, or N/A for the verification status of each task for each file category.

| File Category | Task | Verified |
| --- | --- | --- |
| Field Survey | TDOTSeed3D.dgn seed file was used to create Model.dgn file | Choose an item. |
|  | File name aligns with TDOT standard naming convention for ORD deliverables | Choose an item. |
|  | Used State Plane NAD83 (2011) coordinate system, i.e. *TN83/2011F – NSRS11 (NAD83/ 2011) Tennessee State Plane*  *Zone, US Foot* | Choose an item. |
|  | All field codes were imported and mapped accordingly | Choose an item. |
|  | All survey locators are the correct scale | Choose an item. |
|  | Additional survey features added in the office | Choose an item. |
|  | Plan annotation applied and edited as needed | Choose an item. |
| Aerial Survey | TDOTSeed3D.dgn seed file was used to create Aerial Model.dgn file | Choose an item. |
|  | File name aligns with TDOT standard naming convention for ORD deliverables | Choose an item. |
|  | Used State Plane NAD83 (2011) coordinate system, i.e. TN83/2011F – NSRS11 (NAD83/2011) Tennessee State Plane Zone, US Foot | Choose an item. |
|  | All data was imported and mapped accordingly | Choose an item. |
|  | Plan annotation applied and edited as needed | Choose an item. |
| Terrain | TDOTSeed3D.dgn seed file was used to create Terrain.dgn file | Choose an item. |
|  | File name aligns with TDOT standard naming convention for ORD deliverables | Choose an item. |
|  | Used State Plane NAD83 (2011) coordinate system, i.e. *TN83/2011F – NSRS11 (NAD83/ 2011) Tennessee State Plane*  *Zone, US Foot* | Choose an item. |
|  | Field Survey TIN file and Aerial Survey TIN file are combined, if a Field Survey Data file and an Aerial Survey Data file are required | Choose an item. |
|  | Existing terrain created using the Survey Existing Ground Feature Definition | Choose an item. |
|  | Terrain edits made | Choose an item. |
|  | Referenced Model.dgn and verified conformance | Choose an item. |
|  | Referenced Aerial Model.dgn and verified conformance, if applicable | Choose an item. |
| Alignment | TDOTSeed2D.dgn seed file was used to create Alignment.dgn file | Choose an item. |
|  | File name aligns with TDOT standard naming convention for ORD deliverables | Choose an item. |
|  | Used State Plane NAD83 (2011) coordinate system, i.e. *TN83/2011F – NSRS11 (NAD83/ 2011) Tennessee State Plane*  *Zone, US Foot* | Choose an item. |
|  | Horizontal chain(s) created using the Survey Preliminary Centerline Feature Definition | Choose an item. |
|  | Profile drawing model(s) created for preliminary centerline profile(s) | Choose an item. |
|  | All existing ROW lines, property lines, parcel lines, property owners, and tract numbers included | Choose an item. |
|  | All existing drainage and utilities (non-modeled and modeled) projected to the applicable preliminary centerline profile | Choose an item. |
|  | All existing hydraulic features (non-modeled and modeled) projected to the applicable centerline profile | Choose an item. |
|  | Plan and Profile annotation applied and edited | Choose an item. |
| Utility | TDOTSeed2D.dgn seed file was used to create Utility.dgn file | Choose an item. |
|  | File name aligns with TDOT standard naming convention for ORD deliverables | Choose an item. |
|  | Used State Plane NAD83 (2011) coordinate system, i.e. *TN83/2011F – NSRS11 (NAD83/ 2011) Tennessee State Plane*  *Zone, US Foot* | Choose an item. |
|  | All existing drainage and utility models created (plan view) | Choose an item. |
|  | Delineated drainage areas graphics applied | Choose an item. |
|  | Plan annotation applied and edited as needed | Choose an item. |
|  | Drainage/hydraulic data blocks completed | Choose an item. |