



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
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NICOLE MAJESKI
SECRETARY

MEMORANDUM

TO: Jason Hastings, Chief of Bridges and Structures
Mike Simmons, Chief of Project Development South
Matt Vincent, Chief of Project Development North

VIA: Nicole Majeski, Secretary

VIA: Shanté Hastings, Chief Engineer *SAA*

FROM: Mark Luszczyk, Deputy Director, Design *ML*

DATE: June 3, 2022

SUBJECT: **Availability of Design Model Electronic Content & Delegation of Signature Authority**

This memorandum is an update to a previous memorandum issued on October 29, 2021. This memorandum primarily updates the reference to the Electronic File Sharing Release form noted on Page 2 from Version 2 to Version 3.

DelDOT and our design consultants have produced electronic content during the survey and design phases of project development that could be utilized in the construction phase of the project lifecycle for many years. Prior to 2022, the following information was provided to the contracting community on a project-by-project basis:

- ASCII data files with coordinates and elevations for proposed points as selected by the engineer.
- Existing digital terrain model, in DTM file format, compatible with software currently used by DelDOT.
- Proposed digital terrain model, in DTM file format, compatible with software currently used by DelDOT.
- Design file, in DGN file format, that contains 3D feature lines for the proposed design. 3D feature lines are for the proposed top surface elevation only.

This information was typically provided only to the awarded contractor and was for information purposes only. It was not part of the official plan set, construction documents, or the formal agreement between DelDOT and the contractor.

As part of DelDOT's continued commitment to improving our use of electronic content and based on coordination with the Delaware Contractors Association, we modified our standard practice on this topic starting in January 2022.

For projects that have a 3D model, DelDOT began providing the following information to the contracting community during the advertisement phase of the bidding process beginning January 1, 2022:

- ASCII data files with coordinates and elevations for proposed points as selected by the engineer.
- Existing terrain in a design file format, containing the triangulated mesh.
- Proposed terrain in a design file format, containing 3D feature lines representing the top surface elevation.

These files will continue to be provided and will continue to be for information purposes only.

Please refer to the "Development and Review of 3D Engineered Models for Construction" document, located on DelDOT's CADD Wiki, for information pertaining to the following topics related to 3D models and digital deliverables:

- Benefits of 3D Engineering Content
- Surveying Considerations
- Electronic Deliverables
- 3D Modeling Applications
- 3D Model Density Considerations
- 3D Model Content Requirements
- Electronic Design Data and 3D Model Cross Checking
- 3D Engineered Model Review Checklist

Prior to making the project digital deliverables available to the contracting community, the "3D Engineered Model Review Checklist" must be completed and approved, along with the applicable Electronic File Sharing Release form (for either in-house or consultant designed projects), noted as "Version 3, 6/XX/2022," and available on the DelDOT Design Resource Center. These documents have been reviewed and approved as to form by DelDOT's Deputy Attorney General. Any changes to the terms noted in the documents must receive a separate legal approval. The authority to sign these forms on behalf of the Department is hereby delegated to the Chief/Assistant Director level as permitted by *29 Del. C. §8401, et. seq.*


There may be special circumstances that preclude some projects from including electronic files. The intent is that these project exceptions will be rare.

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Concurrence:



Nicole Majeski, Secretary

ML:ad

cc:

Don Weber, Deputy Director, Operations and Support

Mark Buckalew, Chief of Construction and Materials

Peter Haag, Chief of Traffic Engineering

Maureen Kelley, Chief of Environmental & Administrative Support

John Caruano, Support Engineer

Jeff Niezgoda, Assistant Director, Active Transportation & Community Connections

David Kleinot, CADD Resource Engineer