

LA DOTD Software and Deliverable Standards for Electronic Plans * (Revised 02/15/2008)

Function	DOTD Software Standard	Consultant Software Standard	Uniform Format Deliverable	Comments
CAD Drafting	MicroStation V8.5	MicroStation V8.5 or <u>Autodesk</u> AutoCAD 2005-2007 ⁽¹⁾ *	MicroStation - DGN	⁽¹⁾ At DOTD's discretion, when specified in the contract, MicroStation may be required for any or all project participants on specific projects. * MicroStation V8.9 (XM) is required to translate AutoCAD 2007 drawings.
CAD Standards Management	<u>Altiva</u> CADconform V6.4	<u>Altiva</u> CADconform V6.4	Certified DGN	Drawings can be created using MicroStation or AutoCAD version of CADconform. Deliverable DGN files shall be certified as DOTD CAD standard compliant using CADconform running on MicroStation.
Plotting	ProjectWise InterPlot Organizer V8.9 (formerly Iplot Client)	ProjectWise InterPlot Organizer V8.9 (Runs on MicroStation and AutoCAD) (Print Deliverable from MicroStation)	PDF ⁽²⁾	⁽²⁾ PDF format drawings will eventually become the formal electronic deliverable, subject to approval and implementation of digital signature methodology. Until then DOTD will scan deliverable matte film drawings to TIFF format.
Deliverable Indexing	<u>Corporate Montage</u> - ControlCAD Indexer V2.2	<u>Corporate Montage</u> - ControlCAD Indexer V2.2	XML	Indexer includes a "Submittal" tool that checks deliverable standards and 'zips' files for submission, and a "Verification" tool that verifies submittal standards compliance. The software will be available at no charge from the DOTD web site.
Road Design	Inroads V8.9	Inroads V8.9	DGN, ALG, DTM	Inroads must be run on the MicroStation platform.
Survey	Inroads Survey V8.9	Inroads Survey V8.9	FWD, DGN, DTM, ALG, ASCII	Data collection tools and methods that produce the required deliverable content and accuracy are acceptable. Inroads must be run on the MicroStation platform.
Hydraulics Drafting	Inroads Storm & Sanitary V8.9	Inroads Storm & Sanitary V8.9	DGN, SDB	DOTD is also considering Inroads Storm & Sanitary for the hydraulics design standard. The current design standard is Hydrwin. Inroads must be run on the MicroStation platform.
CAD Redlining and As-built Plans	Redline V8.5 or 8.9	Redline V8.5 or 8.9	RDL	Bentley Redline is free for consultants to use when designing DOTD projects. The software is available at no charge from the DOTD web site. Redline will be required as needed.
Electronic Plan Reader	<u>Adobe</u> Acrobat Reader V7-V8	<u>Adobe</u> Acrobat Reader V7-V8	N/A	Until implementation of digital signatures, plans will be published in TIFF format. TIFF is automatically converted to PDF when viewing in DOTD's Falcon publishing system. If viewing TIFF offline, use CPC View or other suitable viewer.
Electronic Plans Management	ProjectWise Explorer V8.9	ProjectWise Explorer V8.9 ⁽³⁾	N/A	⁽³⁾ At DOTD's discretion consultants may be required to manage their plans in, or upload submittals to, the DOTD ProjectWise repository. ProjectWise Explorer software is available at no charge on the DOTD web site.
Electronic Plans Publishing	<u>tsaADVET</u> Falcon SVP	N/A	N/A	This plans publishing software, accessible via the DOTD web site, is used to search/view/print/download indexed final project plans and manage related contractor questions and answers.

* Effective January 1, 2007: New projects advertised will require compliance with these standards.

* LA DOTD electronic standards and software downloads are accessible on the LA DOTD web site under Doing Business with DOTD > Electronic Standards for Plans.

* Contact Bentley Systems to purchase MicroStation, ProjectWise InterPlot Organizer, and Inroads products. Contact Altiva Software to purchase CADconform.

* Projects advertised before January 1, 2007 may require deliverable index files (XML). In such cases appropriate advance notice will be provided.

* LA DOTD CAD standards and software standards are posted on the Altiva Software web site. A link from the LA DOTD web site is provided.

* Software versions provided are base versions. Install the latest update of the base version and keep reasonably up to date.

* All software specified is by Bentley Systems unless otherwise noted (underlined).

* Standards are subject to change based on project circumstances and other variables.

* Important changes are noted in blue.

* Pending changes are noted in red.