ADCMS Grant Progress Report

Date: January 30, 2026

To: U.S. Department of Transportation Federal Highway Administration

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From: Katie Brown, PE – ODOT Digital Delivery Engineering

CC: Viplav Reddy

Oklahoma Department of Transportation (ODOT) is submitting their semi-annual progress report for the Advanced Digital Construction Management Systems (ADCMS) Grant (FY 2022 & 2024) along with Form 425. The progress report will be organized into the eight (8) program components outlined in the grant application and shown below in Figure 1.

Figure 1: Program Components

A. Reporting Period: July 1, 2025 to December 31, 2025

1. Program Management
   a. **2025 Task Order Requests for Consultants**
   b. **Smart Sheet Schedule and Budget Updates**
   c. **Email Marketing & Automation Program (MailChimp and GovDelivery)**
   d. **Check In Meetings – held most Fridays at 8:30 AM**
   - Coordination & Scheduling using smartsheet
   - Summary
   - Action Items list to team via email
   e. **Technical Committee Meetings with Consultants, Contractors & ODOT**
   - TC Meeting No. 9 – held 08/05/2025
   f. **Transitioning external & internal communications to ODOT's Government and Community Affairs Department**

2. Strategic Plan & Implementation Plan Development
   a. **Gap Analysis & Strategic Plan – complete**
   b. **Implementation Plan – complete**
   c. **Change Management Plan**
   - Phase 1: Overview – Complete
   - Phase 2: Organizational and Technical
     o Draft completed 12/15/2025 – Review pending
   d. **Communication Plan**
   - Phase 1: Team Communication – Complete
   - Phase 2: Industry Communication – Final Draft Completed 12/16/2025
   e. **Information Management Implementation Plan – Final Draft Complete 10/13/2025**
   f. **Strategic Communications**
   - ACEC Oklahoma – OkDOT CADD Workspace release notification & Webinar Presentation Industry Invite. 12/17/2025

3. Implementation – Design
   a. **Early Adopter's Meetings (Internal ODOT Staff)**
   - Q3: 09/17/2025 – Data Governance as it applies to Digital Delivery: Current vs Future: Getting data from one location to the next along the life cycle of the asset.
   - Q4: 12/10/2025 – FHWA advancing BIM for Infrastructure Roadmap. Presentation on the roadmap to help understand how the initiatives apply to Oklahoma workflows.
   b. **ORD Workspace Development**
   - Working through industry bugtracker comments and ACEC Working Group beta testing findings.
   - Meeting with business units to develop requirements to create opportunities to advance BIM workflows into normal practices
     o Hydraulics & Hydrology – Drainage library recreated with new optimized cells, libraries were updated with ODOT criteria, conversations initiated to show design outputs in flex tables.
   - Biweekly meetings

- Workspace Releases:
  - Alpha Build Workspace Released 7/11/2025
  - Beta 1 Build Workspace Released 8/15/2025
  - Beta 2 Build Workspace Released 9/18/2025
  - Beta 3 Build Workspace Released 10/24/2025
  - Beta 4 Build Release "Technical Preview" 11/21/2025

c. **Digital Delivery Guidelines**
  - Draft completed and prepared for ACEC Industry Working Group review – 10/28/2025

d. **Modeling Standards**
  - Biweekly meetings held with ODOT, Envision CAD, Freese & Nichols and HDR in conjunction with workspace updates
  - Modeling Standards Manual Draft was updated 12/3/2025 with content for Chapter 3 Digital Deliverables, Chapter 4 General Requirements and Framework and Chapter 5 Modeling Standards and Architecture by Discipline.

e. **Miscellaneous Items**
  - John Padilla - Power Hour OpenRoads Designer instructional meetings well attended
  - Successful meeting 09/04/2025 with OK PELS Board to discuss signing and sealing digital models
  - Bentley (Resident Consultant) dedicated to ODOT's Digital Delivery Program onboarded

4. Implementation – Design & Construction

a. **Pilot Projects for Discovery –**
  - JP 35427(04) – SH-152 over Washita River & Overflow in Washita Co., District 5:
    - 60% milestone review in November 2025. 65% plans in progress.
    - This included 2D plans and 3D model using Bentley Infrastructure Cloud (BIC) and QC/QA Review using BB for 2D and BIC for 3D.
  - JP 35578(04) – SH-152 over Deep Creek in Beckham Co., District 5:
    - 65% plans in progress.
    - This includes 2D plans and 3D model using Bentley Infrastructure Cloud (BIC).
  - JP 38257-04 - US-56 Cimarron Co: 7.99 mi widen and resurface, District 6:
    - Completed preliminary comparison regarding shoulder width
  - JP 33846(04) – SH-145 over I-35 in Garvin Co, District 3:
    - ORD modeling project assigned to Digital Delivery team for the purpose of engaging with construction
    - provide feedback on modeling practices and data sharing
  - JP 33806(04) – SH-51 connection to Muskogee Turnpike in Wagoner Co, District 1:
    - Consultant ORD modeling project to engage construction
    - provide feedback on modeling practices and data sharing
  - Summer students returned to University Squads with new model authoring knowledge and skills
  - 2 week Digital Delivery Division rotation added to first year EIT schedules
    - Beginner ProjectWise common data environment training
    - Understanding "FHWA Advancing BIM for Infrastructure: National Strategic Roadmap"
    - Teaching future engineers model authoring for ORD & OBM
    - Beginner data creation and management skills
    - 2D & 3D construction plan QAQC
  - Piloting managed workspaces with Pencil 9 in larger ACEC 3D working group

- Investigating new workflows and model development techniques for use in production teams
  - ISO naming convention
  - GIS maps for title sheets
  - Simplifying drainage summary sheets
  - Integrated sheet production (BIC environment)
  - Drainage design methods (collaborative vs silo)

5. Implementation – Construction
   a. **ODOT Resident Engineer Academy**
  - Oct 2025 Presentations including Digital Delivery overview, contractor AMG vs design models

6. Implementation – Asset Management & Maintenance
   a. **Pointman**
  - Procurement completed
  - Workspace manager engaged for standards preparation

7. Foundational Program Support
   a. **ProjectWise Implementation Plan & Platform Integration**
  - Establishing System Architecture Document

   b. **ISO 19650 Training & Certification**
  - 60 ODOT staff have completed and have been certified (49 new certifications July 1st – December 31st)
    - Including members of Field Districts, Audit Division (IT Auditor), and Design Staff
  - Total number of Graduates: 60

   c. **Risk Management**
  - Future update planned for Q1 2026
  - Additional risk identified in future ProjectWise deployment

   d. **Peer Exchange**
  - ODOT hosted peer exchange for FHWA for Workforce Development and Connected Data Environment 10/15-16/2025

8. Industry Outreach & Workforce Development
   a. **Website Updates - https://odotdigitaldelivery.com/**
  - Postings/Announcements & Report Uploads – 3 during reporting period
    - 2 workspace updates
    - July ADCMS Grant report (abbreviated version)
  - Monthly Analytics – 6 month summary below, see **Attachment B**
    - 1,683 Unique Visitors
    - 3,7879 Views
    - Engagement increase due to industry engagements and new workspace releases

b. **STEM Outreach**
- Participating in ODOT Workforce Coalition Meeting
- Muskogee High School Robotics Club – (Pictures attached)
  - o Built and competed w/ Robot "Mezzo Forte v2"
  - o Building Mezzo Forte v3
  - o *"…They are learning skills that will take them beyond this high school robotics program. The biggest skill they are learning is persistence – pushing past the setbacks until we have success. Learning how to push themselves past present skill sets to learn more complex skill. It has been has been amazing to watch these kids grow as they put together some metal with screws, or as they write words in a program that controls the robot's movement."* – Janet Lopez, Muskogee High School, PLTW Pre-Engineering/Computer Science

c. **Local Agency Support & Outreach**
- Consideration of shifting county and local government projects to ODOT standards and processes for projects designed using ODOT funds

d. **Industry Stakeholder Collaboration**
- ACEC 3D Working Group –
  - o September 11, 2025: Program Updates - Workspace Updates, Digital Delivery Guidelines & Modeling Standards Overviews
  - o November 12, 2025: Workspace Beta Testing Roundtable Discussions
- Oklahoma ACEC
  - o General Meeting – Digital Delivery Update 11/18/2025
  - o OkDOT CADD Workspace Webinar Presentation to Industry
- WASHTO (2) – July 20-23, 2025
  - o Reimagining Project Delivery Together, by ODOT/Michael Pearson
- IHEEP – Oct. 5-9, 2025 – ODOT Participated in the following Presentations:
  - o Roundtable DOT Digital Delivery Discussions
  - o ODOT - Digital Delivery Journey: A Collaborative Approach to Modernizing Project Delivery
  - o Bridging Platforms and Standards - A Real-World Digital Delivery Use Case - Oklahoma & Pencil 9
  - o Lunch Keynote: Winning the War on Productivity
- Joined and participating in FHWA Digital Delivery Stakeholder Group
- Upcoming Presentations for 2026
  - o FHWA Digital Delivery Stakeholder Group – ADCMS Update: Data Gov. and Standards
  - o Preparing to host Bentley Roundtable

e. **Workforce Development**
- ODOT working with Vo-Tech school to establish transportation software training curriculum and best practices. Initiatives will be used to ready future workforce training programs