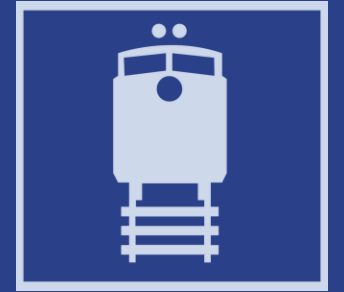




INDOT
**DIGITAL
DELIVERY**

2026 Purdue Road School Transportation Conference



Digital Delivery Website



- <https://on.in.gov/INDOTDigitalDelivery>

Digital Delivery

[Home](#) [INDOT](#) > [INDOT](#) > Digital Delivery

Digital delivery in transportation refers to a **model-based project delivery method** that replaces traditional 2D paper plans with **3D-engineered models and structured data** as the primary source of truth throughout the project lifecycle. Instead of static PDFs, contractors, designers, and inspectors work from integrated digital models that include geometry, attributes, and linked documentation. This approach enables:

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What's New?

Infrastructure Cloud

5/8/2026

- [Construction Memo 26-03](#) – Bentley Infrastructure Cloud use begins on projects let on or after July 8, 2026 distributed.
- [Infrastructure Cloud Starter Guide](#) has been added to the website.



INDOT DIGITAL DELIVERY

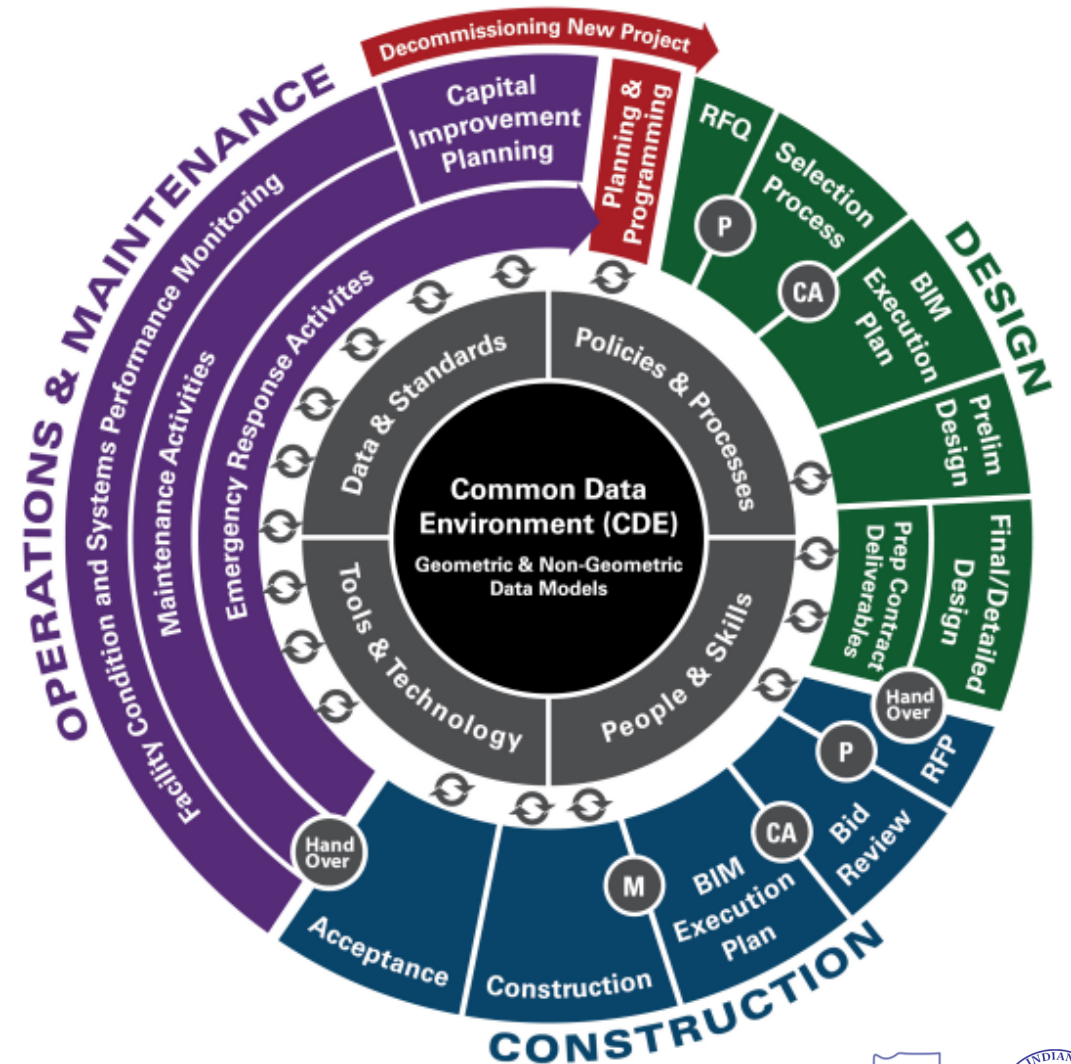
10 YEAR STRATEGIC ROADMAP



RFP Digital Delivery

ID: 21239
Digital Delivery
Implementation
Plan and Data
Requirements
Development
Plan

- Advertised RFP: 03/10/26
- Modernize Bentley Workspace
 - Bridge Workspace
 - Drainage Workspace
- Future-State Data Dictionary



Infrastructure Cloud

Register a project

Upgrade projects

Recent

My projects



EXTERNAL PROJECT

205815

SR 32 PDB

Created on: Feb 10, 2025



PROJECT

Lead Des 1900162

x-Testing Contract R-42570 - M...

Created on: Sep 25, 2025



PROJECT

INDOT_Phase 1 BIC

INDOT_Phase 1 BIC

Created on: Feb 19, 2026



PROJECT

Sandbox

BIC Demo Sandbox

Indianapolis

Created on: Jan 20, 2026



PROJECT

Improve 64

Contract R-42570, Lead Des 19...

Created on: Mar 12, 2026



INDOT PROJECT

BIC Training Template

BIC Training Template

Created on: Nov 24, 2025



PROJECT

Major Projects Template

Major Projects Template

Created on: Jul 28, 2025



PROJECT

2100256

R-43741 - Seymour I-74

Greensburg

Created on: Dec 16, 2025



PROJECT

2100202, R-43798

Contract R-43798 Coliseum BL...

Created on: Jan 5, 2026



EXTERNAL PROJECT

684082

170 Pavement Replacement

Indianapolis, IN

Created on: Feb 3, 2026

All projects >

Major Projects



Improve
64



I-70 Revive
Contract 3



Renew I-
70 West



Mid States



CAD Model Request



Blanket Waiver Form

Export PDF with Geolocation
or Coordinate System

INDOT ProjectWise work area



<https://www.in.gov/dot/div/contracts/conmemo/22-08.pdf>

Title *	
Construction Conference Test	
Summary Description and Solution	
Parking Lot curb is icy	
Onset Date of Change	Change Order Type
02/11/2026	104.02 Changed Condition

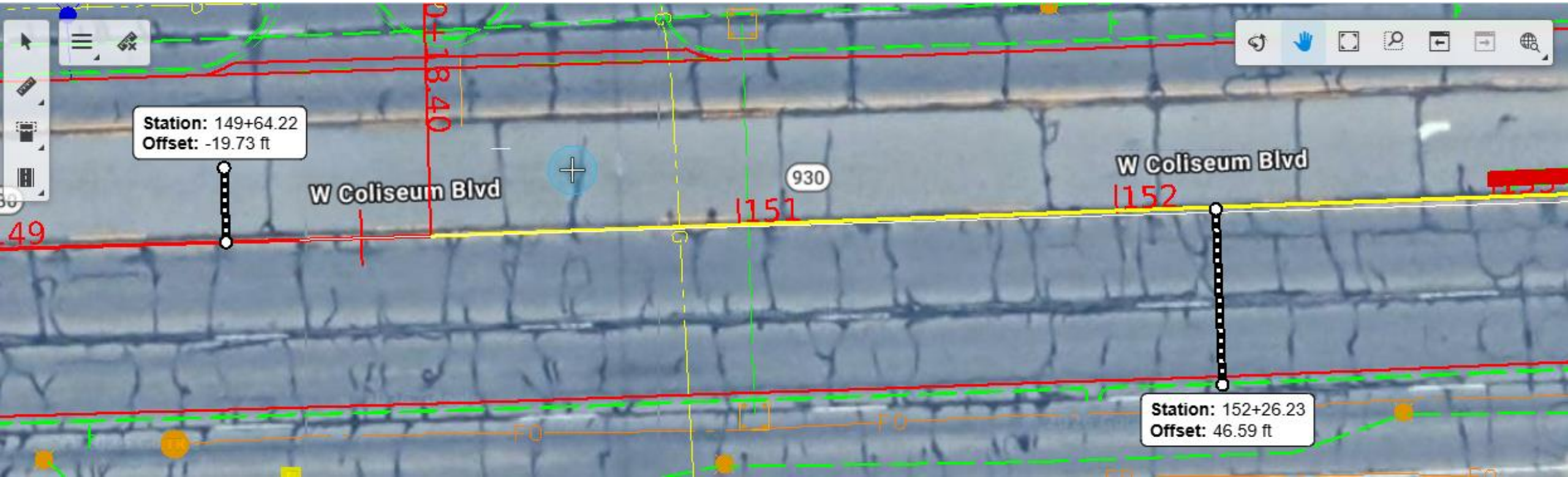
Andrew Pangallo

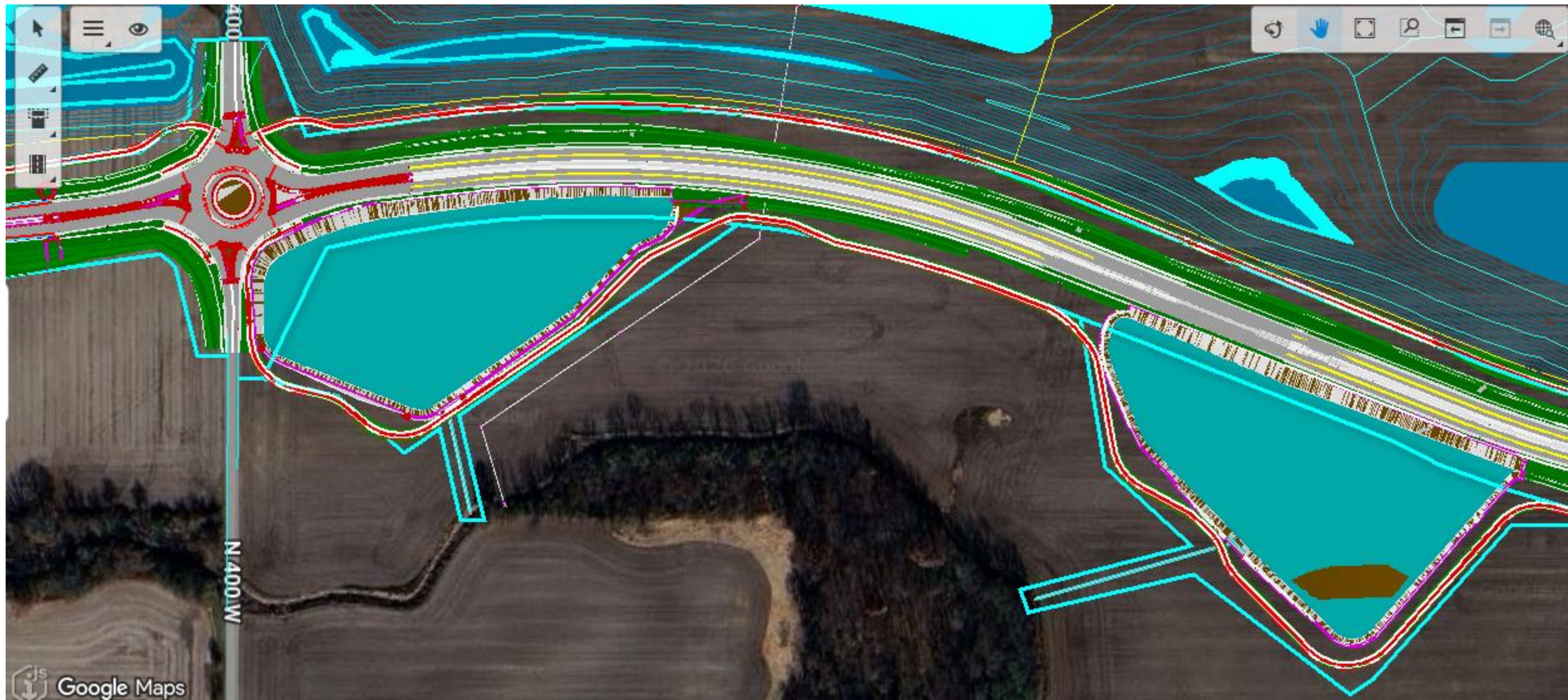
Role: Contractor Project Manager ✕

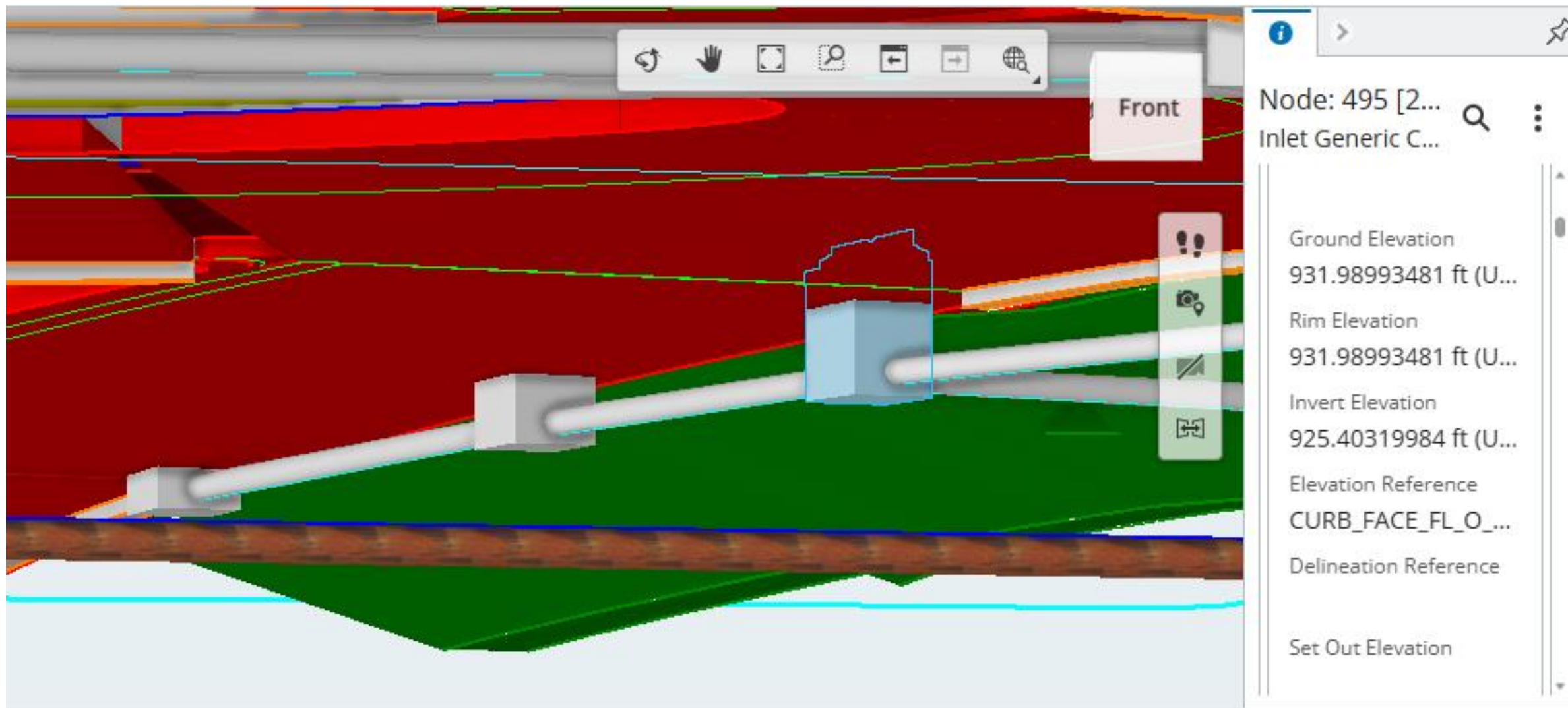
Cancel



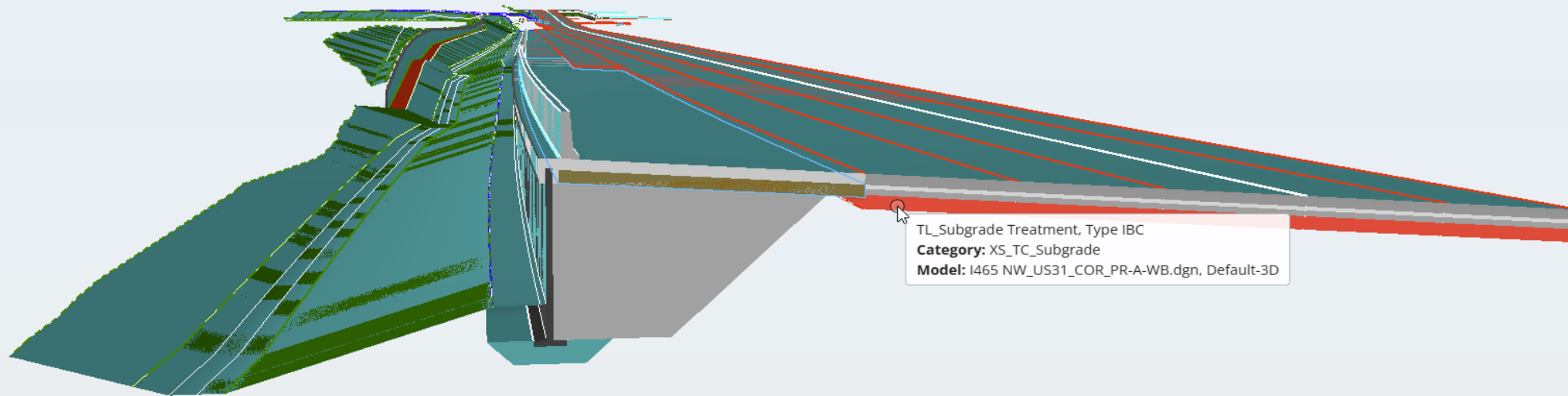
Infrastructure Cloud







Unified Model Viewing



- View and work with models directly in a web browser
- No OpenRoads or OpenBridge required
- Roads, Bridges, drainage, terrain, all together

Map Layers

Base

Google Maps: Aerial Im...

Background

No Background layers specified

Add Layer

Overlay

No Overlay layers specified

Add Layer

Properties

SW2_Aggregate for Under...

XS_TC_Aggregate

Selected Item(s)

Category

XS_TC_Aggregate

Code

Model

I465 NW_US31_COR_PR-A-WB.dgn, ...

User Label

SW2_Aggregate for Underdrains

Mesh

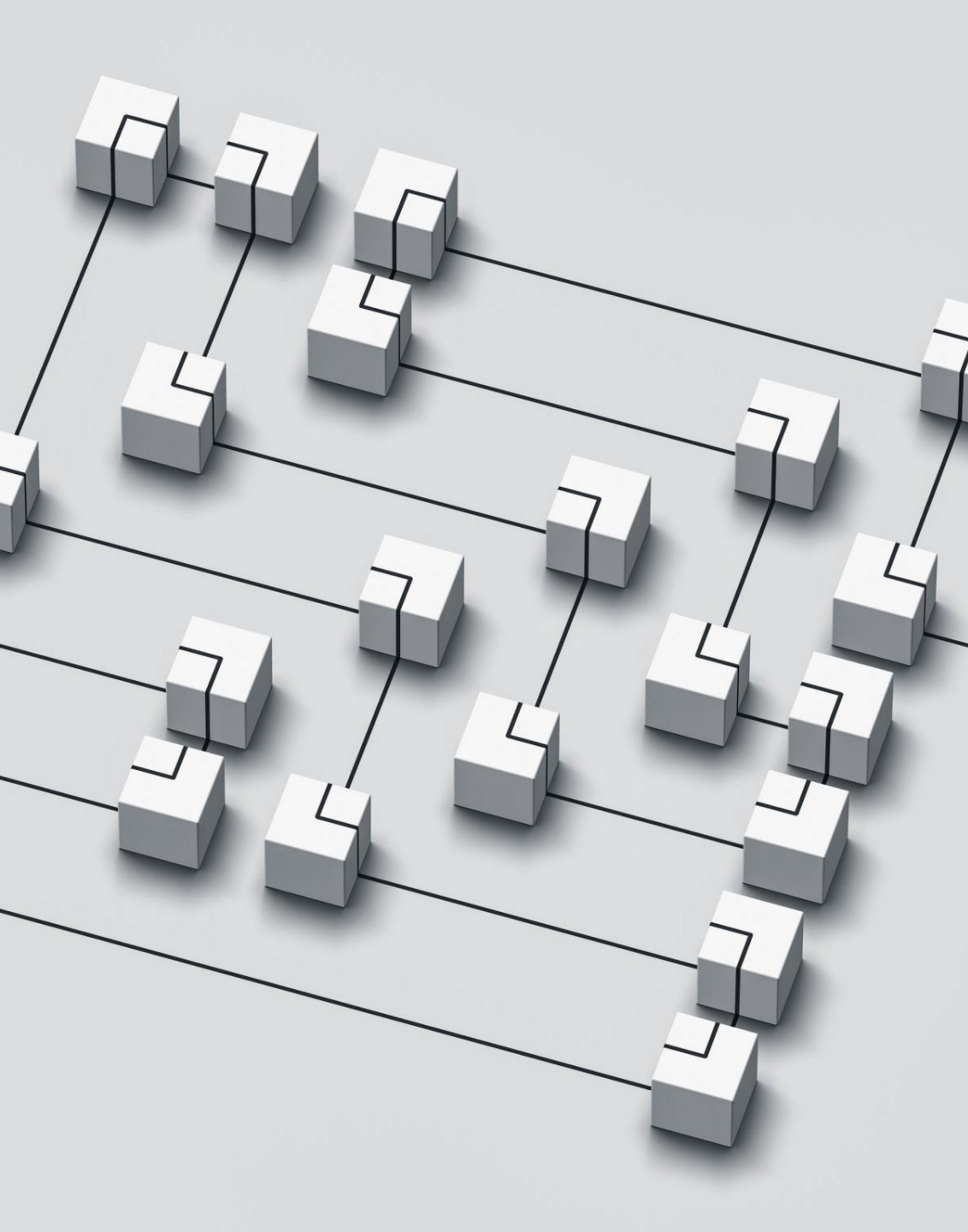
Surface Feature Symbology

XS_TC_Aggregate

Volume Option

Design

Cut Factor



Pathways to Digital Delivery

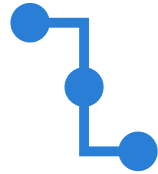
- Data Pathway
 - Item Types
 - Data Dictionary
 - CAD Details and Requirements
 - The "Model"
- Business Pathway
 - Tools
 - Processes



Business Pathway to Digital Delivery Infrastructure



**ProjectWise and
Infrastructure Cloud**



3 Step Approach



Challenges

>3000 Switches

Logistics



Agile Tool Development

Alphabet Soup – ITAP et al

Agile Development – Iterate, iterate, iterate

Collaborative Effort – Tools that work for everyone

Feedback Required - [INDOT: Digital Delivery](#)



Infrastructure Cloud – What is it?

Bentley Infrastructure Cloud connects design and construction data across project lifecycles through user-friendly dashboards and geospatial views - enabling smarter decision making and better outcomes. Engineering and construction teams deliver projects easier with advanced document and model-centric workflows, and owners gain insight to maximize asset operations and maintenance performance.



One Stop Shop vs Shop till you drop

Infrastructure Cloud



Current Tools



I've been "Invited" to a project, now what?

You have been added to a Bentley iTwin. Welcome!

 noreply@bentley.com
To: Paauwe, Jonathan

 If there are problems with how this message is displayed, click here to view it in a web browser.

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Bentley

Get started on your new Project

Philip Smock from **Indiana DOT** has added you to the **2400793** Project. You can now begin working!

Click on "View Project" to get started.

[View Project](#)

Links not working? Try pasting this in your web browser

<https://connect.bentley.com/Project?projectId=462e58d2-9192-43f3-bf2d-30572cebc148>

Powered by



This is an automatically generated email notification. Do not reply to this email.



Welcome to the Team, lets get started

Quick Start Guide:

Digital delivery in transportation refers to a **model-based project delivery method** that replaces traditional 2D paper plans with **3D-engineered models and structured data** as the primary source of truth throughout the project lifecycle. Instead of static PDFs, contractors, designers, and inspectors work from integrated digital models that include geometry, attributes, and linked documentation. This approach enables:

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My Work

- This area on the Home page will filter all Forms that are “Open” and assigned to “Me”.

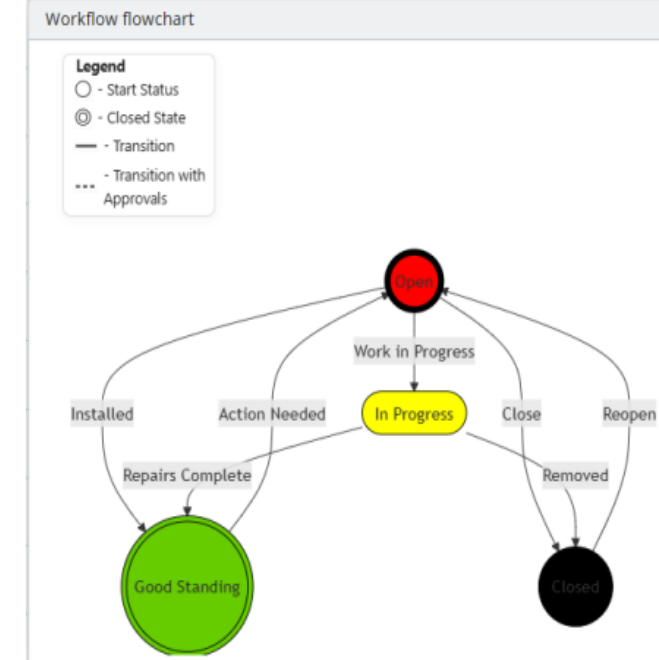
My work

Table Calendar Map Model

Map view showing a location in Decatur, GA. A red arrow points to the 'Map' tab and another red arrow points to the 'ID' column header in the table below.

ID	Subject	State	Status	Assigned To	Due Date	Modified By	Modifi
BMP-00010	Short Description	Open	Open	SWQM - INDOT	4/14/26 0 day(s) overdue	Andrew Pangallo	4/14/21 ***
BMP-00009	Check Dam	Open	In Progress	INDOT Environmental	4/14/26 0 day(s) overdue	Reed Hathaway	4/14/21 ***
BMP-00008		Open	Open	Andrew Pangallo	4/8/26 6 day(s) overdue	Andrew Pangallo	4/8/26 ***

Form State and Status



State

- Open
 - Allows for “Comments” use by any member with access
 - Will display “Overdue” if current date is greater than the Due Date
- Closed
 - Locked for comment and edit form in this state
 - Determines if a form is on time or overdue in relation to the Due Date
 - Can be “Reopened” for future editing

Creating a Submittal

The screenshot displays the Bentley Infrastructure Cloud web application interface. The browser address bar shows the URL: <https://infrastructurecloud.bentley.com/0253e480-4a6d-496f-a1bd-2e4a4bf2711d/home>. The interface includes a sidebar with navigation options: Home, Work, Documents, Deliverables, Map, iModels, Dashboard, Carbon Analysis, and Administration. The main content area is titled "Project View" and shows a project named "Sandbox BIC Demo Sandbox Indianapolis". A weather widget for Indianapolis, Monday May 11, displays a sunny forecast with a high of 71°F and a low of 42°F. The "My recent activity" section lists two items: "Transmittal Issue #TRA-00023 access drive" (April 17, 2025) and "Transmittal Issue #TRA-00020 Constr Access" (April 16, 2025). The "My work" section shows a task assigned to Jonathan Pasour with a status of "Filed". The "Create" section lists various document types: Change Order Request, Customer Service, Notice of Changed Condition, Observation, Progress Meeting Agenda, Punchlist, RFI, and Stormwater Management Inspection. The "iModels" section shows a model with 465/865 items and a status of "Completed with issues". The "Summary" section provides a high-level overview of work items: 3 All open items, 0 Open Observation, 0 Open RFI, 2 Open Submittals, and 0 Open Deliverable RFI. It also includes a legend for item status: New (0), Overdue (2), Close deadline (0), and Upcoming (0).

Infrastructure Cloud

Search any dataspace in this project or asset

Project View

Sandbox
BIC Demo Sandbox
Indianapolis

Indianapolis, Monday May 11
Sunny
71°F
Wind: 15 mph, W
Humidity: 29%

TUE 78° 59°
WED 65° 43°
THU 68° 47°
FRI 71° 59°

My recent activity

- Transmittal Issue #TRA-00023
access drive
April 17, 2025
Viewed
- Transmittal Issue #TRA-00020
Constr Access
April 16, 2025
Viewed

My work

My work My role Approvals

ID: TRA-00023
access drive
Assigned to: Jonathan Pasour
Status: Filed

Create

- Change Order Request
- Customer Service
- Notice of Changed Condition
- Observation
- Progress Meeting Agenda
- Punchlist
- RFI
- Stormwater Management Inspection

iModels

465/865
Completed with issues - View report

Summary

My work All work

3 All open items
New: 0
Overdue: 2
Close deadline: 0
Upcoming: 0

0 Open Observation
1 Open Transmittal Issue

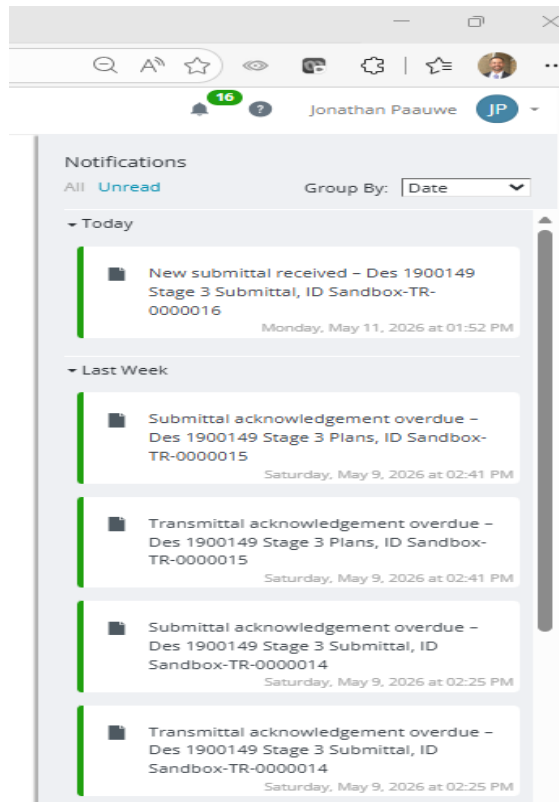
0 Open RFI
0 Open Submittal Issue

2 Open Submittals

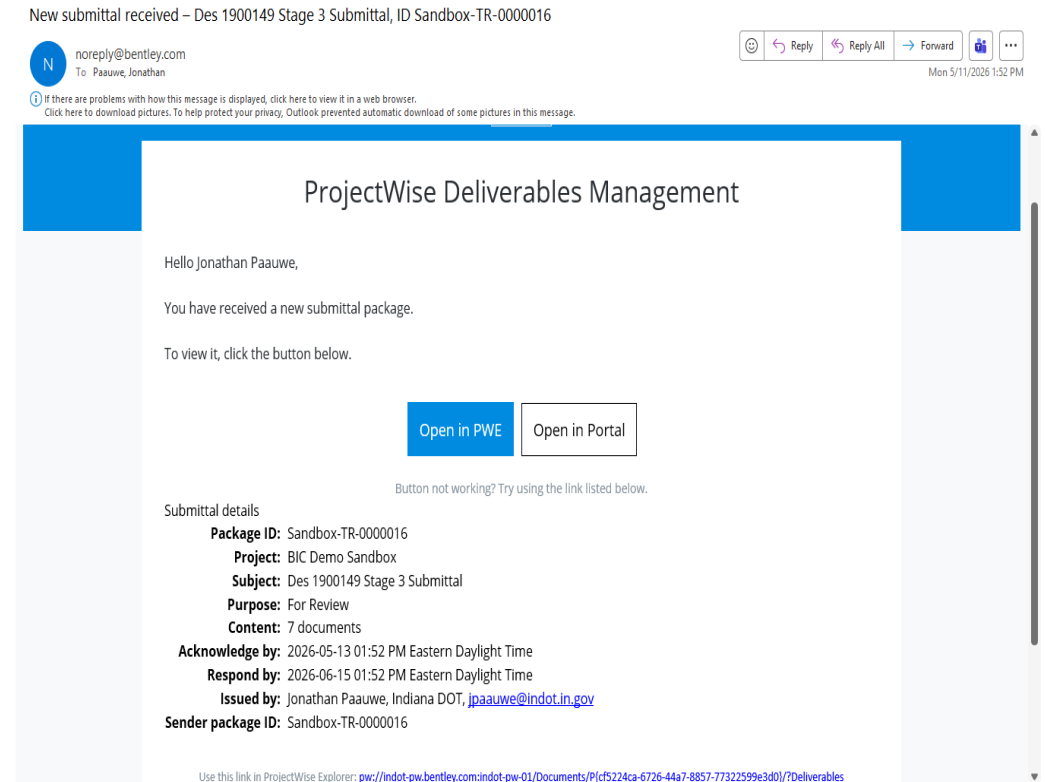
0 Open Deliverable RFI

Communications

Connection Center Notifications



Email Notifications



Reviewing Comments and Issues

Infrastructure Cloud Sandbox BIC Demo Sandbox PROJECT

Search any datatype in this project or asset

Project View

Home Work Documents Deliverables Map iModels Dashboard Carbon Analysis

INDOT DIGITAL DELIVERY SANDBOX

Sandbox BIC Demo Sandbox Indianapolis

Indianapolis, Monday May 11 72°F 73° 42° Partly Cloudy Wind: 15 mph, W Humidity: 25%

TUE 77° 58° WED 64° 43° THU 68° 48° FRI 71° 59°

My recent activity

- Transmittal Issue #TRA-00023 access drive April 17, 2026 Viewed
- Transmittal Issue #TRA-00020 Constr Access April 16, 2026 Viewed

My work

My work My role Approvals

- ID: TRA-00023 access drive Assigned to: Jonathan Pauwe Status: Fixed
- ID: SUB-00024 Pavement Detail Assigned to: Jonathan Pauwe Due: May 11, 2026 Due today - Status: Unresolved
- ID: TRA-00024 Pavement Detail Assigned to: Jonathan Pauwe Due: May 11, 2026 Due today - Status: Unresolved

View all

Create

- Change Order Request
- Customer Service
- Notice of Changed Condition
- Observation
- Progress Meeting Agenda
- Punchlist
- RFI
- Stormwater Management Inspection

iModels

465/865

Completed with issues - View report

Summary

My work		All work	
4 All open items	0 Open Observation	0 Open RFI	1 Open Submittals
0 New: 2	2 Open Transmittal Issue	1 Open Submittal Issue	0 Open Deliverable RFI
0 Overdue: 1			
0 Close deadline: 2			
0 Upcoming: 0			

The Details – So many decisions!

- Naming Conventions
- Versioning vs New Submittal
- Automation vs Flexibility
- Now or Later



Stepped Approach



First Step – Active Construction Contracts

Construction Records Management
Intra-project Communication
Limited Inspection



Second Step – Active Design Contracts

Deliverables Management
Design Collaboration



Third Step – Future State

Document Coding
Expanded Workflows



Digital Delivery Website



Getting Started

Access to training and Infrastructure Cloud requires a Bentley IMS account, register below:

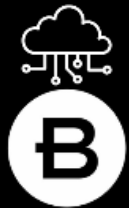
Bentley®
REGISTRATION

Register Now



Infrastructure Cloud Starter Guide

Trainings



Infrastructure Cloud Overview



Infrastructure Cloud Project Collaboration

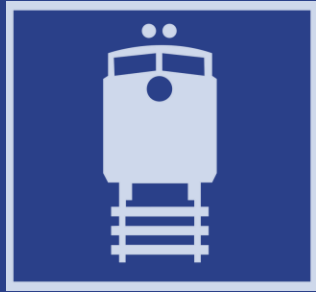
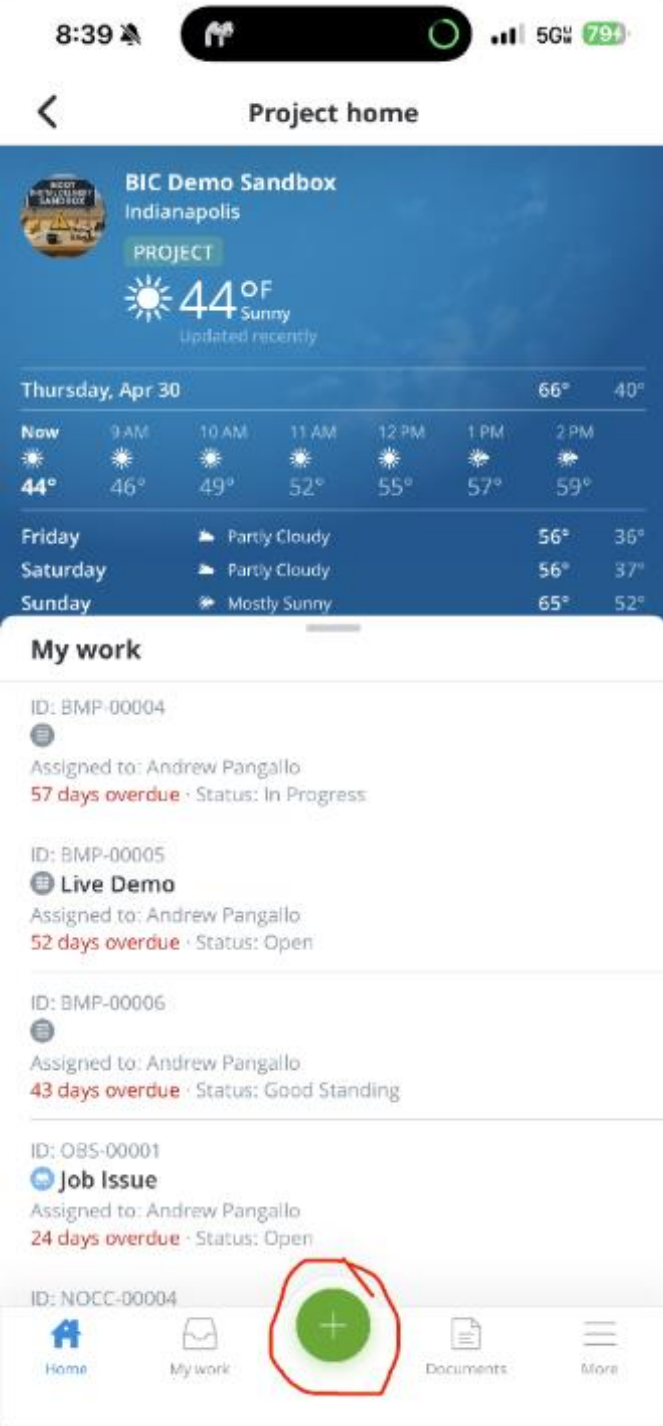
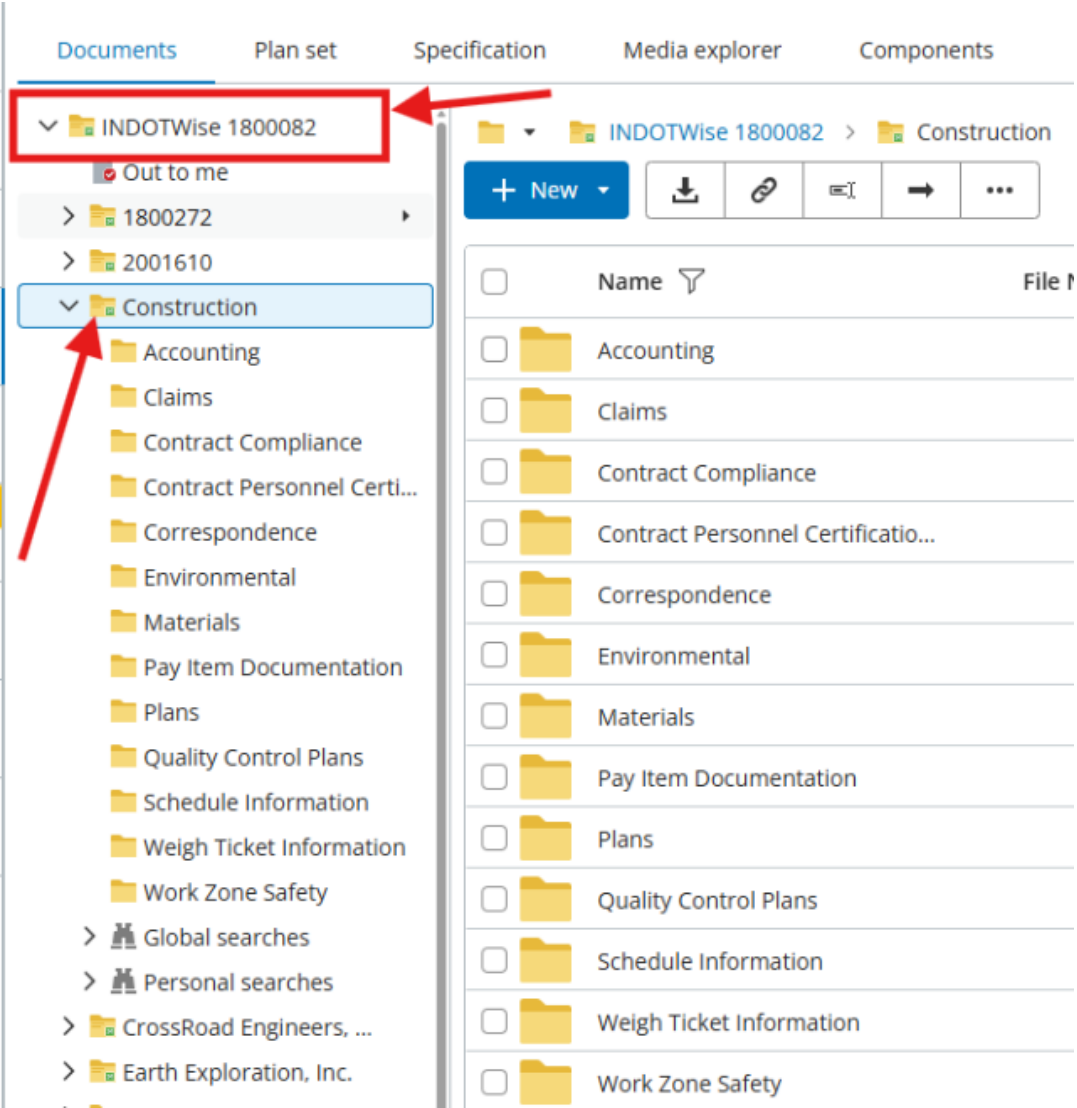


YouTube Bentley Training



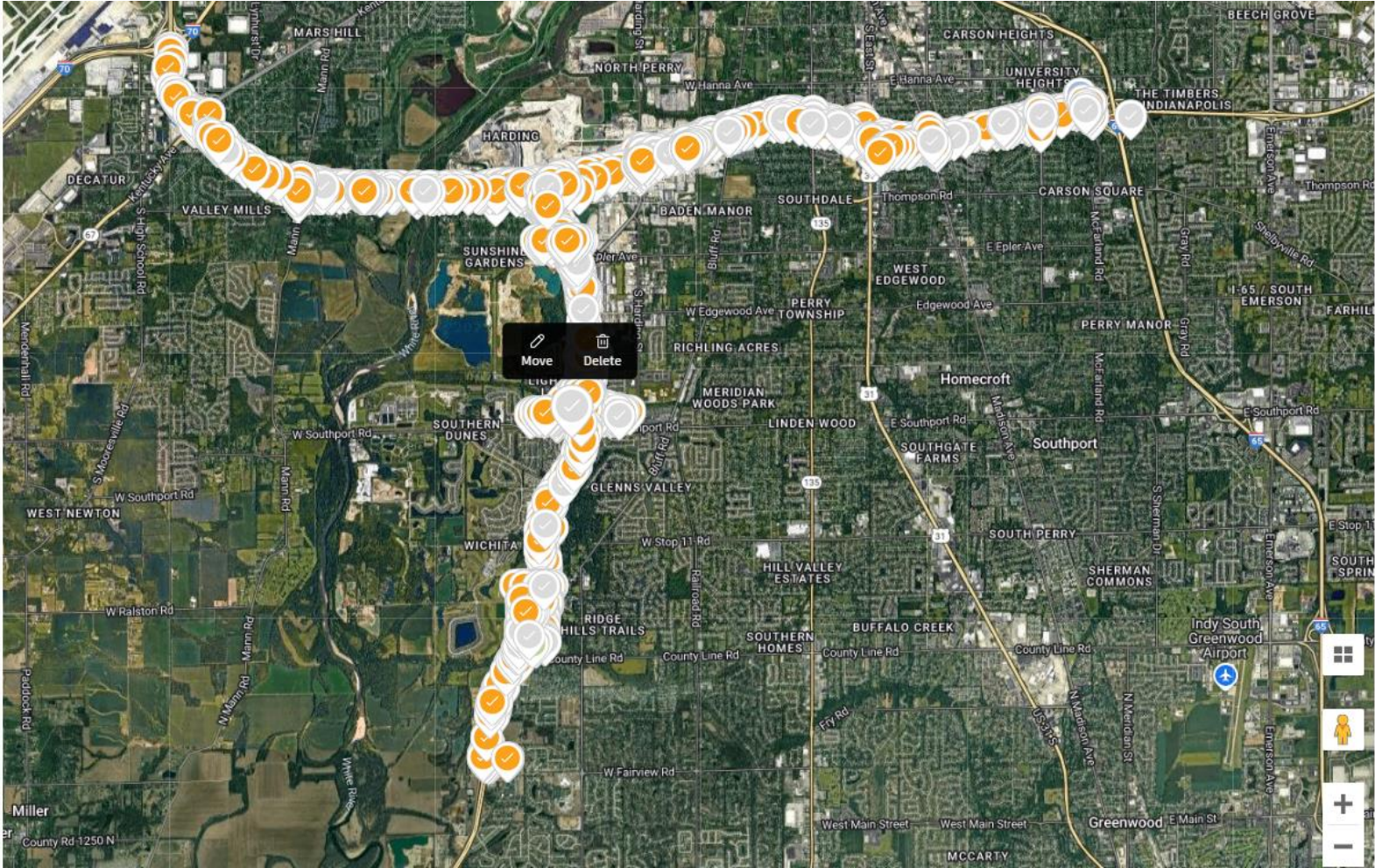
ProjectWise Deliverables Management Portal
Help

Project Collaboration



Workflows/Process/Communication

#156 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#155 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#154 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#153 - Deficiency List	
Closed • Deficiency List	
Deficiency List - Milestone	No due date
#152 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#151 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#150 - Deficiency List	
Open • Deficiency List	
Deficiency List - Milestone	No due date
#149 - Deficiency List	



39.66366350620304,
-86.19813775263934

Google

Map data ©2025 Terms Report a map error

Description *

Clean sediment from curb and road.
Repair inlet protection as needed.

Priority

Unspecified

Placement

Unspecified

References (2) Add references

Photos (2)

IMG_5431
May 28, 2024 10:17 AM

image000000
May 30, 2024 12:49 PM

Attachments

Construction Workflows

B

Infrastructure Cloud

 Sandbox

BIC Demo Sandbox

PROJECT

★

▼

Q

Search any datatype in this project or asset





AP

▼

+

Home

Work

Documents

Deliverables

Map

iModels

Dashboard

Carbon Analysis

Administration

Project View

▼



Sandbox

BIC Demo Sandbox

Indianapolis

Indianapolis, Tuesday Apr 28



68°F

68° 58°

Mostly Cloudy

Wind: 11 mph, W

Humidity: 60%

WED



62° 41°

THU



61° 44°

FRI



57° 38°

SAT



58° 39°

My recent activity



Notice of Changed Condition #NOCC-00004

-

10 minutes ago

Viewed



Change Order Request #COR-00001

Construction Conference Test

17 minutes ago

Viewed



Observation #OBS-00001

Job Issue

18 minutes ago

Viewed



Submittal Issue #SUB-00023

access drive

1 day ago

Viewed



Notice of Changed Condition #NOCC-00001

My work

My work

My role

Approvals



ID: SUB-00014

Cross Section Elevation

Assigned to: Andrew Pangallo

Status: Fixed



ID: SUB-00005

Test

Assigned to: Andrew Pangallo

Status: Unresolved



ID: TRA-00006

Test

Assigned to: Andrew Pangallo

Status: Fixed - draft

View all

Create

Change Order Request

Notice of Changed Condition

Observation

Progress Meeting Agenda

Punchlist

RFI

Stormwater Management Inspection

Temporary Traffic Control Devices

iModels

Summary

My work

All work

https://infrastructurecloud.bentley.com/133d76a5-1fbc-4e75-8740-3d08662b9ded4/task

Thank you

Andrew Pangallo

apangallo@indot.IN.gov



Jon Paauwe

jpaauwe@indot.IN.gov

