E-CONSTRUCTION

CEDRIC WILKINSON

Agenda

E-Tickets
Digital Stationing
Drone
Mobile Hot Spot
Connection Complexity

- The supplier must make a new connection for every subcontractor on the project.

- Best Option for the suppliers is to create a test ticket at beginning of work to make sure the connection will work before pour.
2023 e-tickets

2023 Connections
2023 e-tickets

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2023 e-tickets

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2023 e-tickets

Work Zone Notifications

When a truck is loaded a pin is picked up on WAZE that the work zone is active
Connected Equipment

Digital Stationing

Mobile and Computer App
A collaborative digital stationing platform that provides location-based projects
**Digital Stationing**

- Create non-barrel flag
- Locate Yourself
- Reply to Messages

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**Project Creation**

- ProjectWise (Design Storage of Projects)
- Creating projects from the contracts website that have e-files available
- Working with Design for awareness when sending Projects to Contracts
- This will allow project creation early on
- Only projects that have an alignment will be created
- Will be working with District ROW to create Projects
- Working on Alignment database for entire state
Digital Stationing Forms

Project can be simple alignments
Can add Design Linework
Can add Drone Imagery
Can add GIS data base
Drones

- Can upload Drone Pictures from a planned flight
- Can upload Phone pictures from an app (Pix4Dcatch)
- Bridge Deck Overlays, 100’ x 24’ deck
  - Drone 60 Pictures
  - Phone 810 Pictures
- Phone app is to be used for small details of items and Drones used for larger areas
Drones

• Great 3D Views
• Digital Delivery Option

Drones

• Cut a cross-section anywhere with the staging models turned on
Drones

- Add Roadway Linework
- Bridge Linework
- Culvert Linework
- 3D Models
- E-ticket data
- Geo-tagged pictures

Drones

- Can create Measurements for Pay
Mobile Hotspot

From: Van Tassel, Todd <Todd.VanTassel@iowadot.us>
Sent: Thursday, January 12, 2023 11:15:11 PM
To: Wilkinson, Cedric <Cedric.Wilkinson@iowadot.us>
Subject: Cell booster test

Cedric,

I stopped at a place on 52 that my cell phone was showing (no service) and tried to get signed into Connex with no luck. I connected to the cell booster and signed into Connex with no issues and it was at the same speed as normal. I did need to go into the settings on my phone to get connected to the booster sometimes. Also for training purpose, the phone goes from no service to showing Verizon internet when you get connected.

Thanks

TODD VAN TASSEL
HIGHWAY TECH. SENIOR
DAVENPORT CONSTRUCTION OFFICE

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todd.vantassel@iowadot.us
Mobile Hotspot

DS-23048

This DS can be added to any contract that might have poor cell service.

This doesn’t have to go with e-ticketing.

Thank You - Questions?

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