



# NORTH CAROLINA

Department of Transportation



# E-Ticketing / Technology Update

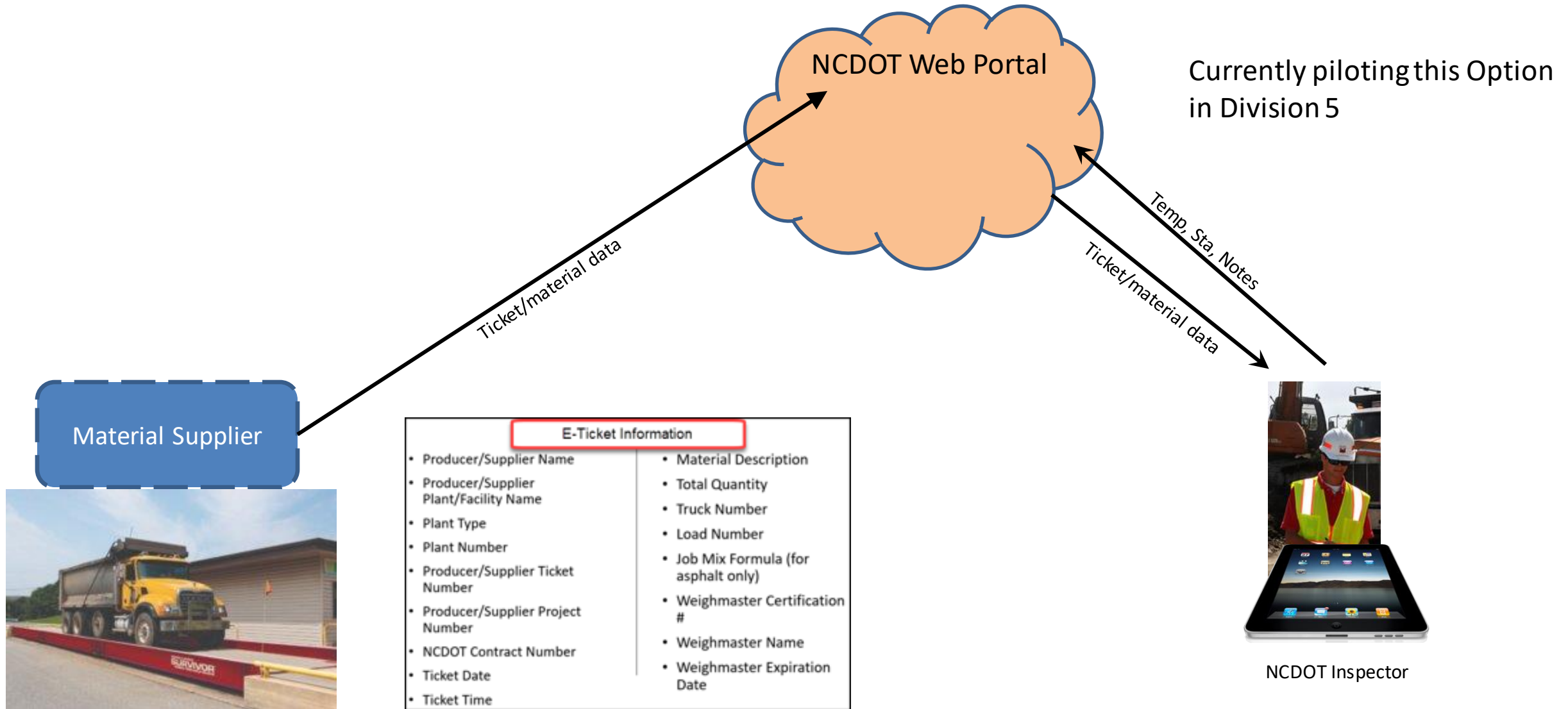
Bryan Edwards, PE

# E-Ticketing Update



# E-Ticketing Strategy Updates

## Option 1: E-tickets sent to NCDOT system in real time via API





# E-Ticketing Strategy Updates

## Option 2: QR Code used to facilitate e-ticketing

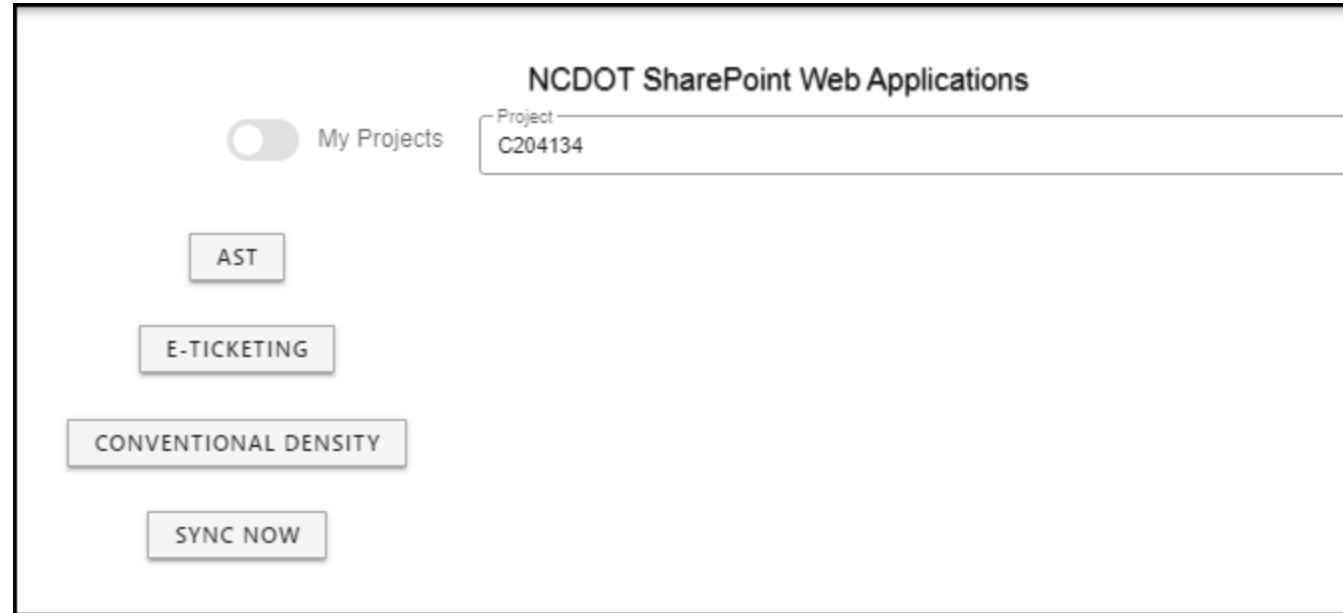
(where coverage is limited)

 A CRH COMPANY		<b>Murphy Asphalt Plant</b>		<b>WARNING: SEE BACK OF TICKET FOR SPECIFIC PRODUCT WARNINGS.</b>	
<b>Murphy, NC</b>				<b>TICKET # 38275</b>	
Date:	6/16/21	Time:	10:30 am	Plant:	AS221
<b>Customer:</b>	<b>201818</b>	<b>Job:</b>	1902	<b>Phase:</b>	1
	WNC Paving Inc		NCDOT DN00667		
	PO Box 896				
	Waynesville, NC 28786-0896				
<b>Carrier:</b>	999	None- Pickups	<b>PO #:</b>	NCDOT DN00667	<b>Zone:</b> 0
<b>Truck ID:</b>	55	<b>Axles:</b>	<b>Product:</b>	49886	NC S9.5C With Rap
<b>License:</b>			<b>JMF:</b>	18-0797-151	<b>Temp:</b>
*** Simulated Delivery ***					
	1 /LDS Today	15 /LDS To Date	<u>Max Legal Gross</u>	<u>Gross</u>	<u>Tare</u>
	9.55 Tn	138.43 Tn	56,500 Lb	40000*lb	20900 lb
	8.66 Mg	125.58 Mg		20.00*Tn	10.45 Tn
			* = Manual Weight	18.14*Mg	9.48 Mg
					19100 lb
					9.55 Tn
					8.66 Mg
		<b>Weighmaster:</b> Derrick Stiles 45013		CA1	06/30/2021
		<b>Lab:</b> 06/30/2021		CTF8	06/30/2021
		<b>Weighmaster:</b>			
		<b>Received By:</b>			

Currently piloting this Option in Division 14

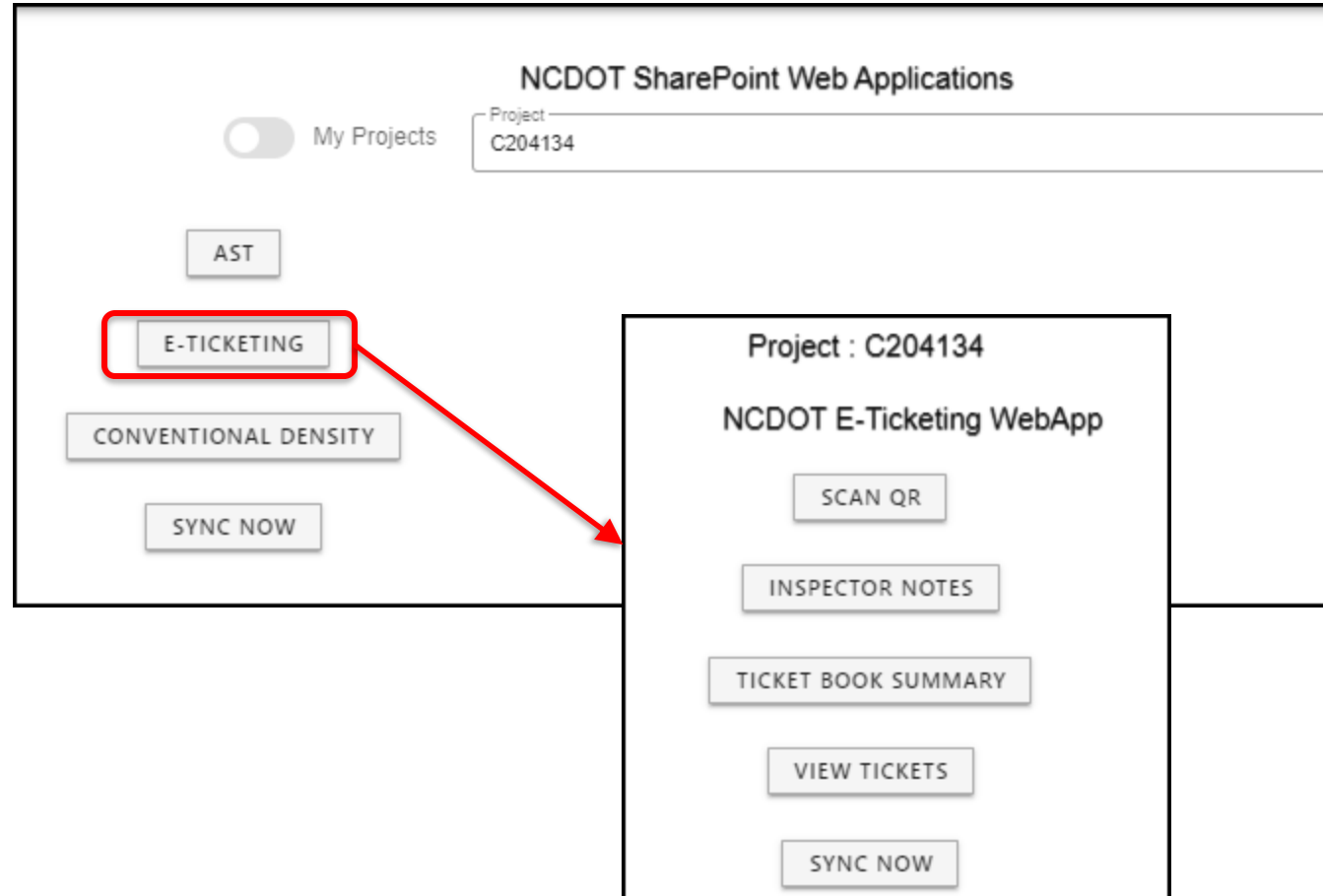
# E-Ticketing Web Application

## Inspector Application (iPad)



# E-Ticketing Web Application

## Inspector Application (iPad)

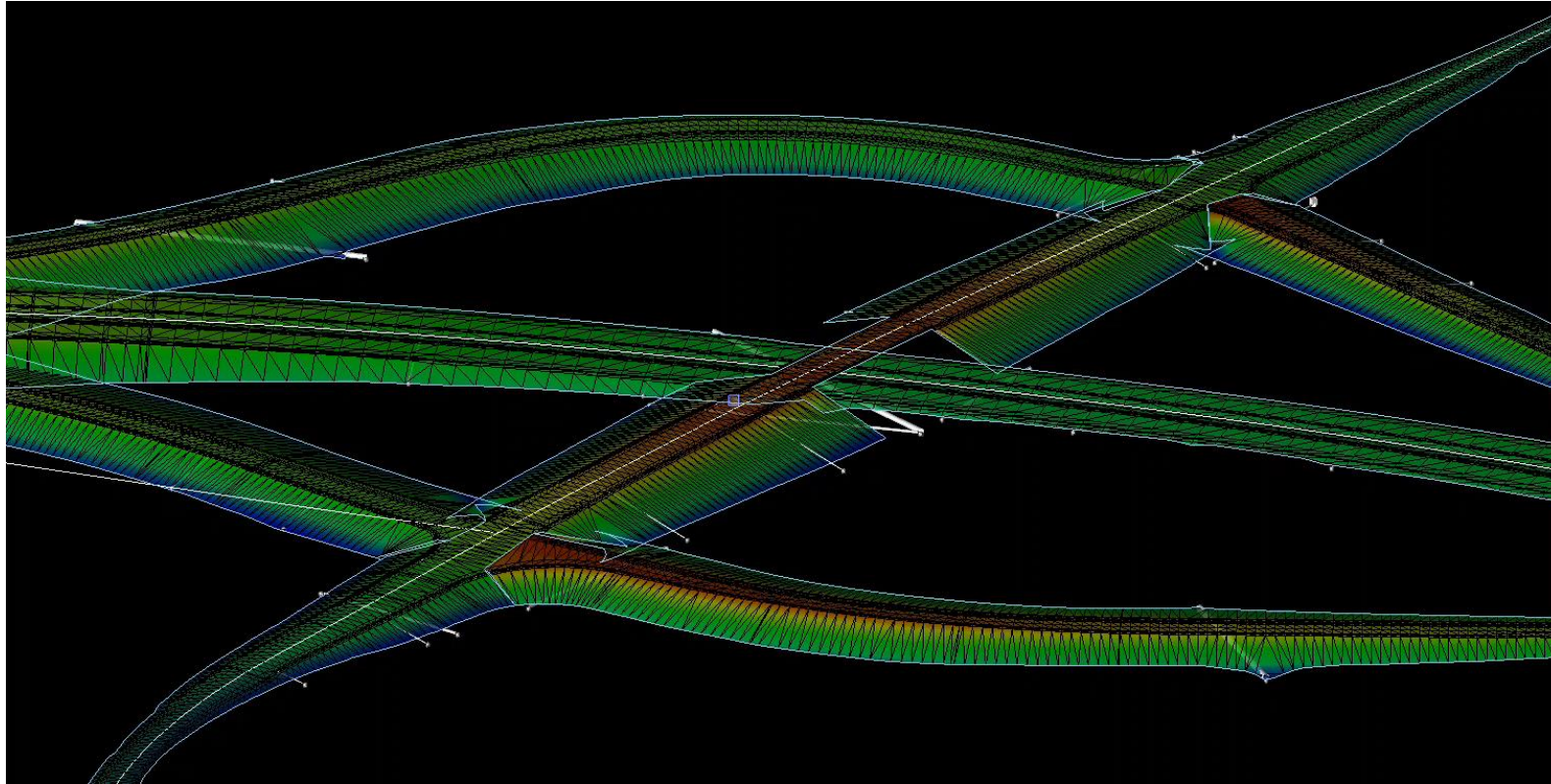


# NCDOT OpenRoads Designer (Construction)





# OpenRoads Designer Update (ORD)



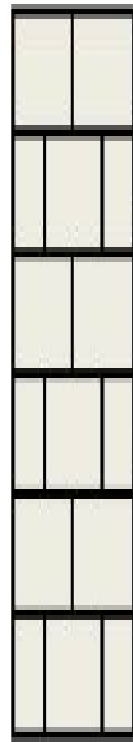


# What do we do today ?

## PreConstruction

2d Plan Set  
(Plans, Profile, XSC)

3d Grading  
Model ?  
(only surface)



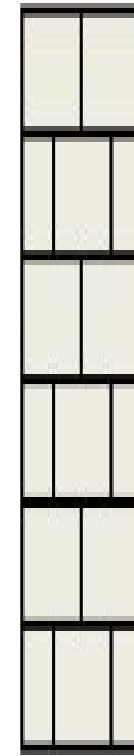
## Construction

PDF Files

SharePoint Project Site

Redline  
Markups of PDF  
Files

SharePlus/  
Bluebeam/  
Adobe



## Asset Mgt

Redline  
Markups of PDF  
Files

New Asbuilts: [SharePoint](#)  
Gwynn: Shared Drive

# How will ORD change this?

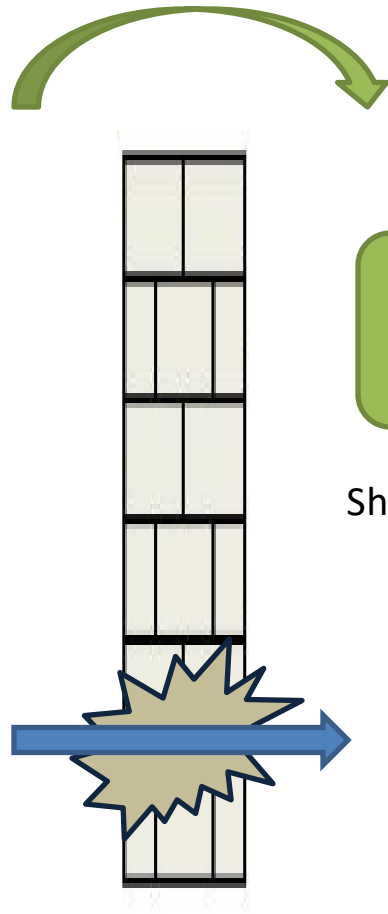
## PreConstruction

2d Plan Set  
(Plans, Profile, XSC)

3d Grading  
Model ?  
(only surface)

3d Model  
(features, pipes, data)

Tools: ORD  
Applications: PW



## Construction

PDF Files

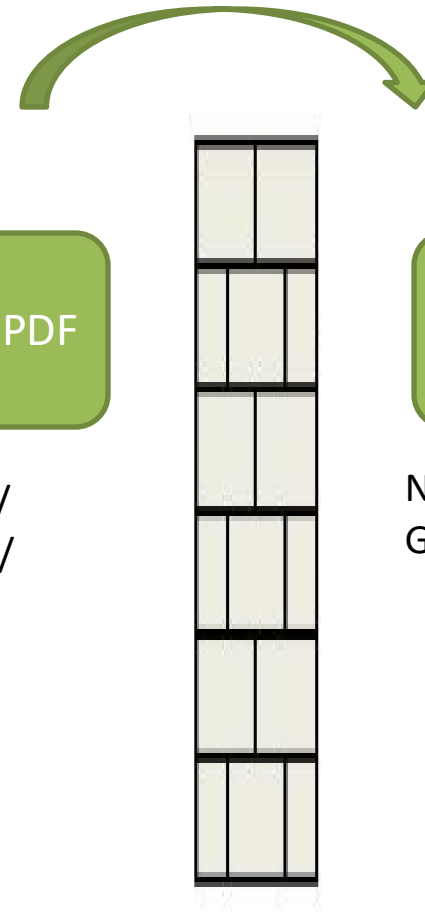
SharePoint Project Site

Redline  
Markups of PDF  
Files

SharePlus/  
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Adobe

3d Model  
(features, pipes, data)

Tools?  
Applications?



## Asset Mgt

Redline  
Markups of PDF  
Files

New Asbuilts: [SharePoint](#)  
Gwynn: Shared Drive

# How are Field Changes Documented ?

## PreConstruction

2d Plan Set  
(Plans, Profile, XSC)

3d Grading  
Model ?  
(only surface)

3d Model  
(features, pipes, data)

Tools: ORD  
Applications: PW



## Construction

PDF Files

SharePoint Project Site

Redline  
Markups of PDF  
Files

SharePlus/  
Bluebeam/  
Adobe

3d Model  
(features, pipes, data)  
**With Corrections**

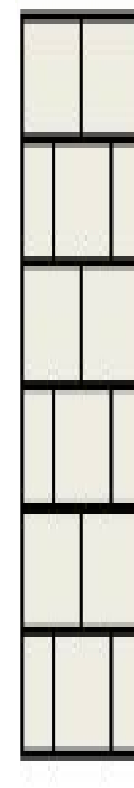
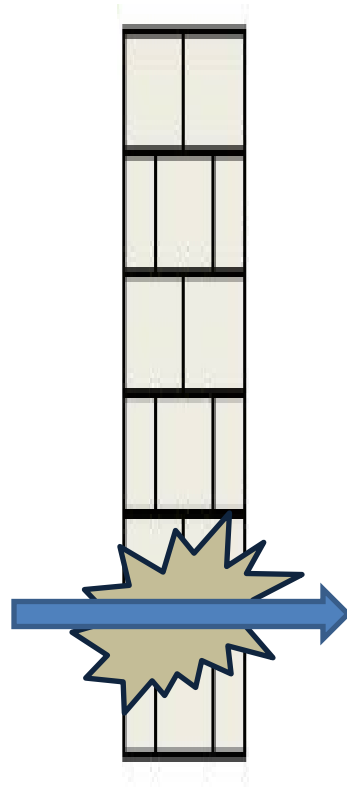
Field changes  
documented  
in the model ?



## Asset Mgt

Redline  
Markups of PDF  
Files

New Asbuilts: [SharePoint](#)  
Gwynn: Shared Drive



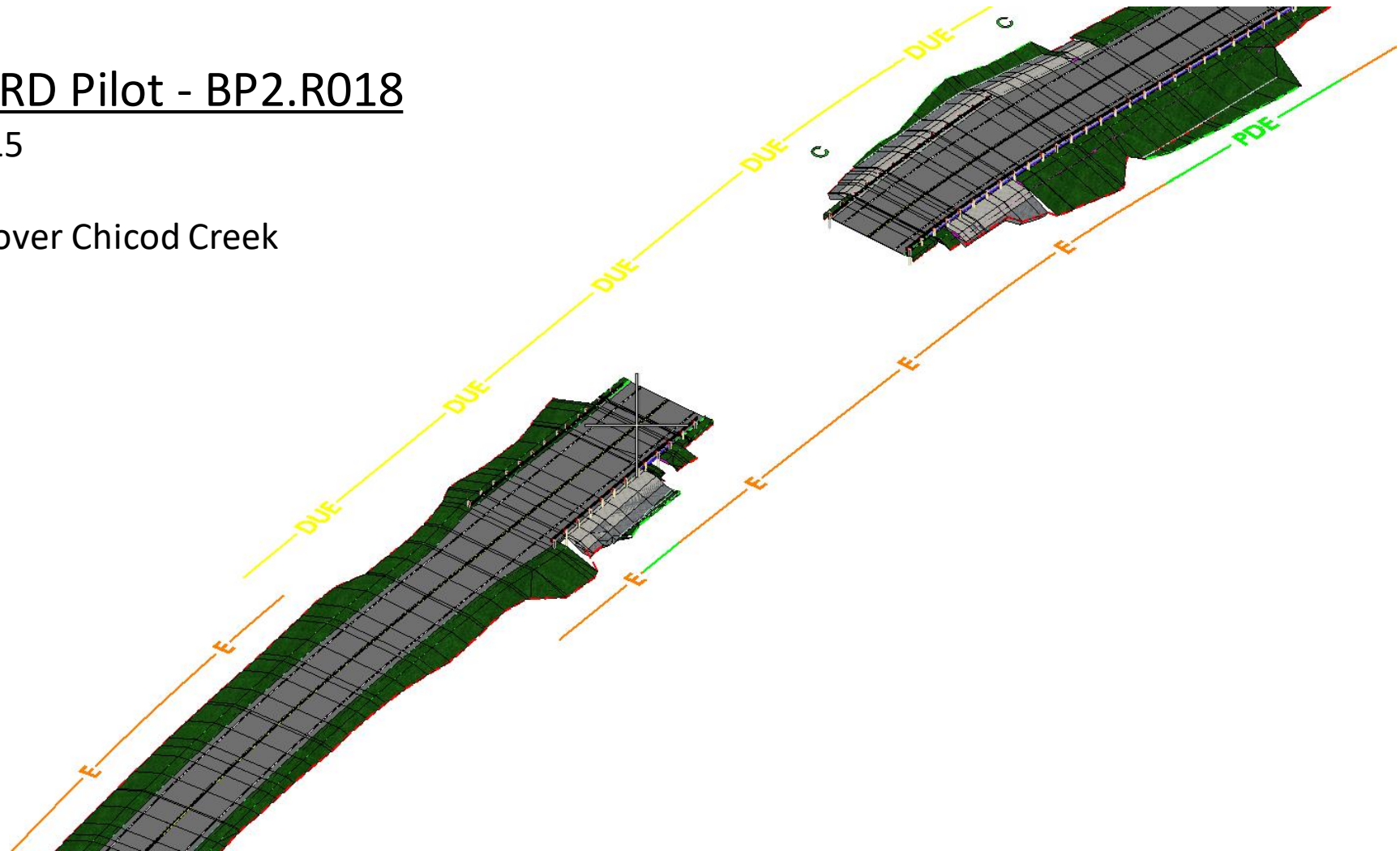


# The Future is Here !

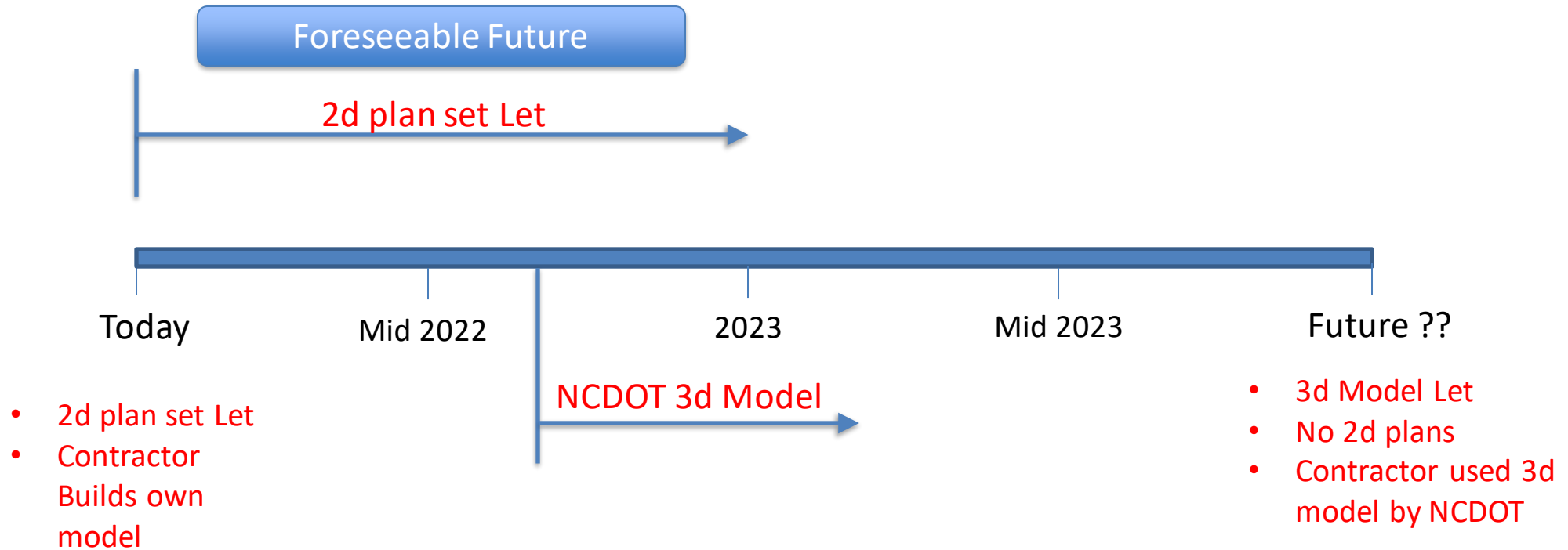
## First NCDOT ORD Pilot - BP2.R018

LET Date: March 15

Replace Bridge 15 over Chicod Creek  
Pitt County

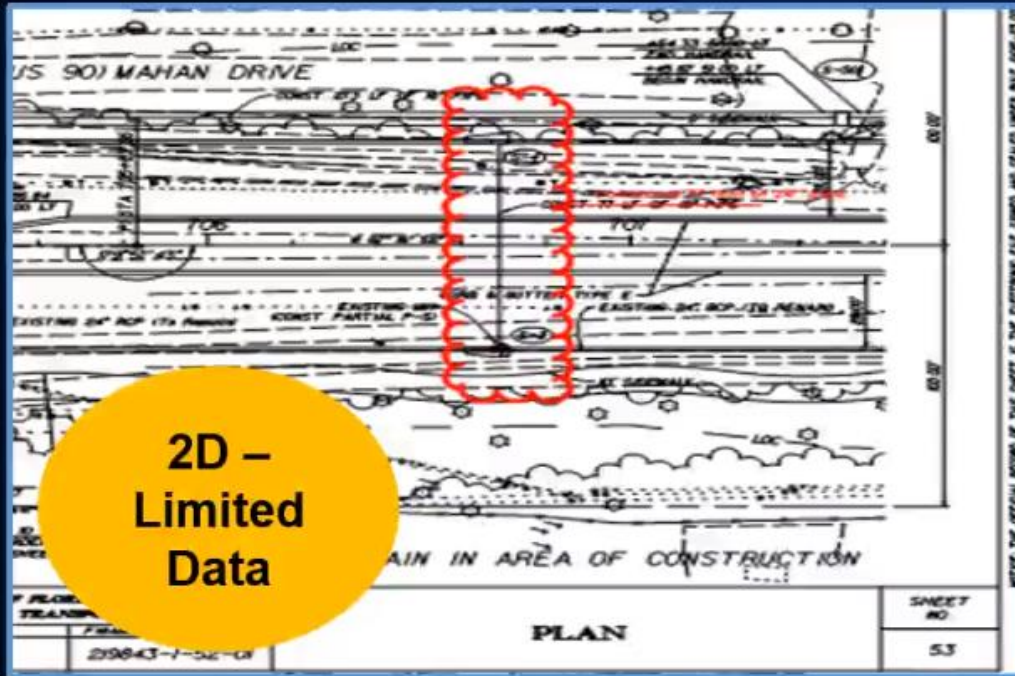


# When will ORD changes take place ?



# Pathway to 3D Model

## Replace this:



## With this:

