

#### **NORTH CAROLINA**

Department of Transportation



















# AGC Conference – July 26, 2019

**Highway Section Meeting** 

Ron Hancock, PE Deputy Chief Engineer Chris Peoples, PE
Director of Field Support

Brian Skeens, PE Assistant State Construction Eng.

### **Joint Committees**

- Four Committees
  - NCDOT/CAGC Joint Cooperative Committee
  - NCDOT/CAGC Joint Roadway Committee
  - NCDOT/CAGC Joint Structure Committee
  - NCDOT/CAGC/ACEC Design Build Committee
- Forum for Sharing Ideas and Discussing Issues
   Affecting the Industry
- Meeting minutes can be found on
  - https://connect.ncdot.gov/resources/Specifications/Pages/Minutes.aspx

### NCDOT/CAGC Joint Cooperative Committee

Kevin Burns

Alan Cahill Adam Holcomb

Donnie Oldham

Jim Seybert

David Moyars, Jr.

Jason Williams

Luke Blythe Mark Johnnie

Chris Britton

Jonathan Bivens

Ron Shaw

Sam Young

Tim Goodson

Matt Farley

Michael Taylor

Tom Watson

Jorge Gambini

Mike Zicko

Drew Johnson

John Tuschak

Bill Newman

R.E. Burns

Blythe Construction

**Dane Construction** 

Sanford Contractors

Lane Construction

Archer Western

Fred Smith Company Blythe Development

Balfour Beatty Infrastructure

Buckeye Bridge

S.T. Wooten Corp.

Lee Construction

Young & McQueen

Tennoca

Vecellio and Grogan

**Barnhill Contracting** 

E. S. Wagner

**Thalle Construction** 

Flatiron

Zachry

**Crowder Construction** 

NHM

NCDOT Lead: CAGC Chair:

Ron Hancock – Deputy Chief Engineer Jonathan Bivens – S.T. Wooten Corp.

### NCDOT/CAGC Joint Roadway Committee

Jeff Saunders

Justin Hill Brian Webb

Mark Nye
Michael Alford

Kevin Thomas

Shannon Douglas BJ Lanier

lan Scott Brandon Hill Ryan Ilg

Bruce Hazle

Jeff Allen Glen Pratt

Michael O'Shields

Adam Tipton

Dan Lieberman

Dave Tolley

Dellon Baker Randy Garris

Shanese Green

**Christopher Conerly** 

WV Paving

T. A. Loving

Blythe Construction

Rogers Group

S.T. Wooten Corp

Lynn Thomas Grading

Barnhill Contracting Lanier Construction

Sanford Contracting Propst Construction

Zachry Construction

**Balfour Beatty Infrastructure** 

Fred Smith Company Vecellio and Grogan

Sloan Construction Company

Young and McQueen

Flatiron

Blythe Development

Branch Civil

**PLT Construction** 

Vistabution

Conti Enterprises

NCDOT Lead: Ron Davenport – State Contract Officer

Lamar Sylvester – State Construction Engineer

#### NCDOT/CAGC Joint Structure Committee

Adam Holcomb

**Brian Weathersby** 

Chris Britton

**Chris Powers** 

Dan Nickel

Damien Hollifield

Jorge Gambini

Erick Frazier

Jay Boyd

Lee Bradley

Chris Brown

Patrick Buckley

Kevin Knuettel

Andy Jenkins

**David Yates** 

Evan Dixon

Tom Meador

Larry Cagle Mike Zicko

**Dane Construction** 

Sloan Construction

Buckeye Bridge

Lee Construction

Carolina Bridge

Young & McQueen

Thalle Construction

S.T. Wooten Corp.

**Balfour Beatty Infrastructure** 

Blythe Construction

Sanford Contractors

**Crowder Construction** 

**Zachry Construction** 

Vecellio and Grogan

Fred Smith Company

Dellinger

Lane Construction

**APAC** 

Flatiron

NCDOT Lead:

Brian Hanks – State Structures Engineer

### NCDOT/CAGC/ACEC Design Build Committee

Michael Grey

Michael Taylor

Chuck Gallant

Lane Construction

Barnhill Contracting

Blythe Construction

Bill Heston Balfour Beatty Infrastructure

Mike Zicko Flatiron

Jon Wallace Fred Smith Company
Andy Barry S.T. Wooten Corp

Lewis Cuthrell Branch Civil

Tom Boyle Kiewit

Pete Weber Dane Construction

Dave Pupkiewicz Walsh Group

Kevin Knuettel Zachry Construction
Travis Padgett Blythe Development

David Moyar Walsh Group

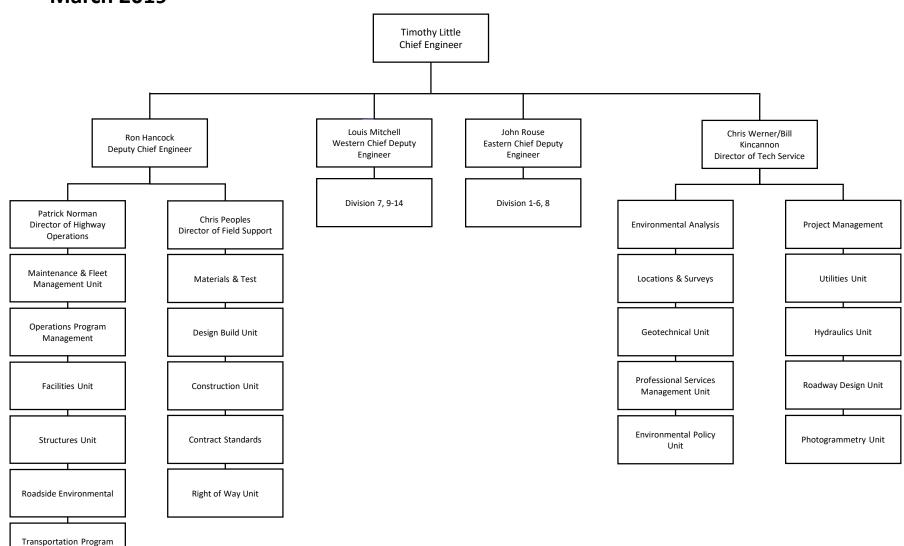
Sam Blevins McLean Contracting

Jon Walker Skanska

NCDOT Lead: Teresa Bruton – Design Build Manager

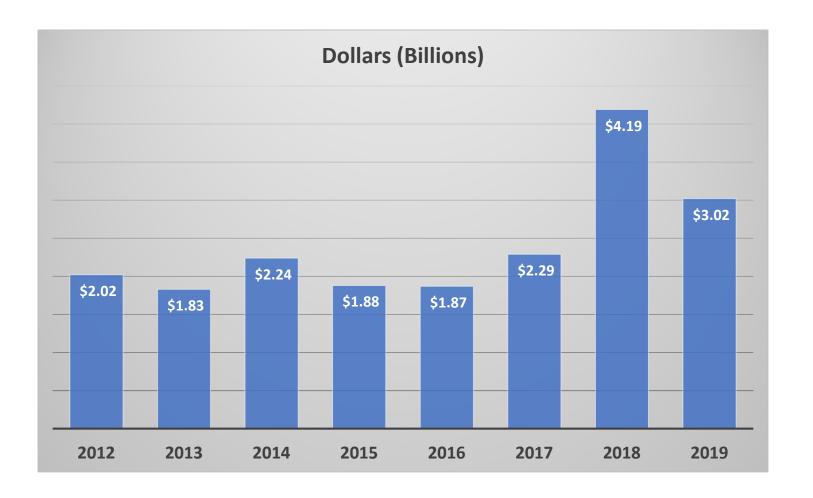
# Chief Engineer's Office Organization Chart March 2019

Management Unit

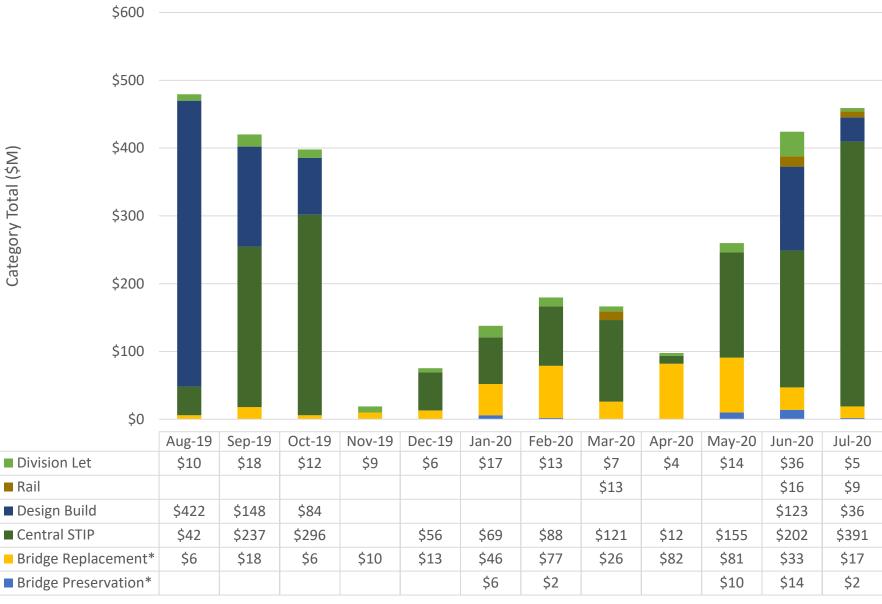


# **Letting Projections**

## **Letting History**



#### Twelve Month Project Projection – Contract Value by \$



Note: Bridge Preservations and Replacements are for Central and Division Let projects

MAJOR PROJECTS > \$20 MILLION SCHEDULED FOR AUGUST 2019 TO JULY 2020								
Let Date	Contract ID	TIP#	County	Div	Description	Latest Estimate	DB Flag	
8/20/2019	INFRA C204283	I-5986A, I-5877	CUMBERLAND, HARNETT	6	I-95 BUSINESS/US-301 (EXIT 56) TO SR 1001 (LONG BRANCH ROAD - EXIT 71). WIDEN TO EIGHT LANES; I-95 AT SR 1811 (BUD HAWKINS ROAD - EXIT 70) AND SR 1001 (LONG BRANCH ROAD - EXIT 71) IMPROVE INTERCHANGES.	\$418,500,000	DB	
8/20/2019	GARVEE C204337	I-5940	DUPLIN, PENDER	3	I-40 FROM DUPLIN COUNTY LINE (MILEMARKER 360) TO WEST OF US 117 (MILEMARKER 389.5) PAVEMENT AND BRIDGE REHABILITATION.	\$42,176,000		
9/17/2019	C204265	I-4400C I-4400BB	HENDERSON	14	I-26 FROM US 25 BUSINESS (EXIT 44) TO NC 280 (EXIT 40); I-26 AT US 64 (EXIT 49) TO US 25 BUSINESS (EXIT 44).	\$214,600,000		
9/17/2019	INFRA C204225	R-5777A, R-5777B, U-5713	CRAVEN	2	NEW BERN - US 70, FROM THE NEUSE RIVER BRIDGE TO SR 1124 (GRANTHAM ROAD) - UPGRADE ROADWAY TO FREEWAY. US 70 AT TAVERNA WAY. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE. US 70 AT WEST THURMAN ROAD/EAST THURMAN ROAD. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	\$147,500,000	DB	
10/15/2019	GARVEE #	I-5905	MECKLENBURG	10	I-85 - MECKLENBURG COUNTY, FROM 0.2 MILE WEST OF NC 16 (BROOKSHIRE BOULEVARD) TO I77. PAVEMENT REHABILITATION.	\$20,700,000		
10/15/2019	C204360	A-0011C	CLAY	14	NC 69 - US 64 FROM GEORGIA STATE LINE TO US 64 (HAYESVILLE BYPASS).	\$38,800,000		
10/15/2019	Build NC C204181	R-2530B	STANLY	10	NC 24 - 27 FROM BIRD ROAD IN ALBEMARLE TO WEST OF THE PEE DEE RIVER.	\$60,100,000		
10/15/2019	Build NC C204368	R-3421A, R-3421B	RICHMOND	8	US 220 BYPASS FROM US 74 BYPASS WEST OF ROCKINGHAM AT SR 1109 (ZION CHURCH ROAD) INTERCHANGE TO SOUTH OF SR 1140 (OLD CHARLOTTE HIGHWAY). US 220 BYPASS FROM SOUTH OF SR 1140 (OLD CHARLOTTE HIGHWAY) TO SOUTHWEST OF SR 1304 (HARRINGTON ROAD).	\$144,700,000		
10/15/2019	Build NC C204412	U-5026, R-5720	NASH	4	ROCKY MOUNT - I-95 AT SR 1770 (SUNSET AVENUE); SR 1770 (EASTERN AVENUE) FROM SR 1003 (RED OAK ROAD) TO SR 1603 (OLD CARRIAGE ROAD) WIDEN TO MULTILANES.	\$63,386,000	DB	
12/17/2019	Build NC C204378	R-2303E	SAMPSON	3	NC 24 FROM US 421/US 701/SR 1296 (SUNSET AVENUE) TO SR 1935 (CECIL ODIE ROAD).	\$27,900, <del>00</del> 0		

## MAJOR PROJECTS > \$20 MILLION SCHEDULED FOR AUGUST 2019 TO JULY 2020

	DB						ľ
Let Date	Contract ID	TIP#	County	Div	Description	Latest Estimate	Flag
1/21/2020	C204396	I-6045, I-6046	NASH, EDGECOMBE	4	US 64 (FUTURE I-87) NASH COUNTY FROM SR 1306 (SOUTH OLD FRANKLIN ROAD) TO I-95; US 64 (FUTURE I-87) EDGECOMBE/NASH COUNTY FROM I-95 TO SR 1225 (KINGSBORO ROAD - MILEMARKER 478); PAVEMENT REHABILITATION.	\$22,250,000	
1/21/2020	C204395	I-5993, I-5994	DURHAM	5	I-40 - DURHAM COUNTY FROM US 15/US 501 TO EAST OF NC 147.	\$24,352,000	
2/18/2020	C204404	U-4405A	CUMBERLAND	6	US 401 (RAEFORD ROAD) FROM US 401 (RAEFORD ROAD) FROM OLD RAEFORD ROAD TO EAST OF BUNCE ROAD.	\$29,315,000	
2/18/2020	C204027	I-5746C, I-5746D, I-5746E	MECKLENBURG	10	I-277 (BROOKSHIRE FRWY) FROM EAST 10TH STREET TO NORTH GRAHAM STREET; I-277 (BROOKSHIRE FRWY) FROM NORTH GRAHAM STREET TO NORTH OF JOHNSON STREET; I-277 (BROOKSHIRE FRWY) FROM I-77 TO EAST 10TH STREET; BRIDGE REHABILITATION AND RESURFACE ROADWAY.	\$22,560,000	
3/17/2020	C204359	W-5600	JOHNSTON	4	US 70 BUSINESS TO NEUSE RIVER BRIDGE, CONVERT TO FREEWAY WITH INTERCHANGES AT SR 1501 (SWIFT CREEK ROAD) AND SR 1919 (WILSON'S MILLS ROAD).	\$77,000,000	
5/19/2020	<b>GARVEE</b> C204348	R-2307B, I-5717	IREDELL, CATAWBA	12	I-77 AND THE NC 150 INTERCHANGE CONSTRUCT INTERCHANGE IMPROVEMENTS NC 150 FROM SR 1902 (HARVEL ROAD) IN CATAWBA COUNTY TO I-77 IN IREDELL COUNTY.	\$155,000,000	
6/16/2020	C204498	R-2511	BEAUFORT, MARTIN	1	US 17 FROM WASHINGTON BYP NORTH OF NC 171 TO MULTI- LANES SOUTH OF WILLIAMSTON.	\$64,800,000	
6/16/2020	Build NC C204499	R-4707	GUILFORD	7	US 29 AND SR 4771 (REEDY FORK PARKWAY) INTERCHANGE IMPROVEMENTS IN GREENSBORO. IMPROVE ROADWAY, MODIFY INTERCHANGE AND REPLACE BRIDGE 400360.	\$44,800,000	
6/16/2020	C204500	R-5726	MOORE	8	NC 211 FROM NC 73 IN WEST END TO WEST OF SR 1241 (HOLLY GROVE SCHOOL ROAD) WIDEN TO MULTILANES.	\$31,900,000	
6/16/2020	INFRA #	R-5777C	CRAVEN	2	US 70 FROM THURMAN ROAD TO HAVELOCK BYPASS. UPGRADE ROADWAY TO FREEWAY AND CONSTRUCT SERVICE ROADS.	\$123,499,000	DB
7/21/2020	C204423	R-5020B	COLUMBUS	6	US 701 BYPASS (MADISON STREET - J K POWELL BOULEVARD) FROM SR 1437 (VIRGIL AVENUE) TO US 74/76.	\$23,800 <u>,0</u> 20	

#### MAJOR PROJECTS > \$20 MILLION SCHEDULED FOR AUGUST 2019 TO JULY 2020

							DB
Let Date	Contract ID	TIP#	County	Div	Description	Latest Estimate	Flag
7/21/2020	INFRA #		HARNETT	6	I-95 AT US 421 (EXIT 73), SR 1793 (POPE ROAD) (EXIT 72), SR		
		I-5878,			1808 (JONESBORO ROAD) (EXIT 75), AND SR 1709 (HODGES		
		I-5883,			CHAPEL ROAD) (EXIT 77). IMPROVE INTERCHANGES. I-95 SR	\$203,700,000	
		I-5986B			1001 (LONG BRANCH ROAD - EXIT 71) TO I-40 (EXIT 81). WIDEN		
					TO EIGHT LANES HARNETT/JOHNSTON COUNTIES.		
	Build NC #				SR 1603 (OLD CARRIAGE ROAD) FROM GREEN HILLS ROAD TO		
7/21/2020		U-5996	NASH	4	SR 1770 (EASTERN AVENUE). ADD CENTER TURN LANE AND	\$23,940,000	
					WIDEN US 64 BRIDGE OVER SR 1603.		
	C204335		CHMBERLAND 6		FAYETTEVILLE - OUTER LOOP FROM SOUTH OF SR 1003		
7/21/2020		U-2519BA,		6	(CAMDEN ROAD) TO SOUTH OF SR 1104 (STRICKLAND BRIDGE	\$122,300,000	
1/21/2020		U-2519BB			ROAD). FAYETTEVILLE - OUTER LOOP FROM SOUTH OF SR 1104	Ψ122,300,000	
					(STRICKLAND BRIDGE ROAD) TO SOUTH OF US 401.		
	INFRA	R-5777D,	CRAVEN,		US 70 (FUTURE I-42) INSTALL BROADBAND FIBER FROM I-40 TO		
7/21/2020	#	I-5986C	CUMBERLAND	2	MOREHEAD CITY PORT. I-95 INSTALL BROADBAND FIBER FROM	\$35,810,000	DB
		1-39000	COMBLINEAND		SOUTH CAROLINA STATE LINE TO VIRGINIA STATE LINE.		

AUGUST 2019 TO JULY 2020 TOTAL COST ESTIMATE FOR PROJECTS > \$20 MIL

\$2,183,388,000

BRIDGE PROJECTS > \$10 MILLION SCHEDULED FOR JULY 2019 TO JUNE 2020									
Let Date	Contract ID	TIP#	County	Div	Description	Latest Estimate	DB Flag		
1/21/2020	C204393	BR-0044	ROCKINGHAM	7	BRIDGE 780168 ON NC 14, NC 87 OVER SMITH RIVER.	\$14,675,000			
2/18/2020	C204219	B-5302	BEAUFORT	2	REPLACE BRIDGE 3 OVER THE NORFOLK SOUTHERN RAILROAD ON US 17B; PRESERVATION OF BRIDGE NO. 25 ON US 17 OVER PAMLICO RIVER; US 17B OVER PAMLICO RIVER. LMC OVERLAY, SUBSTRUCTURE REPAIRS BEAUFORT COUNTY, STR 60025.	\$11,300,000			
2/18/2020	C204485	BR-0036, BR-0039	NASH	4	BRIDGE 630041 ON NC 33 OVER I-95, BRIDGE 630224 ON SR1510 OVER I-95.	\$10,450,000			
2/18/2020	C204372	B-4863	CARTERET	2	REPLACE BRIDGE 73 AND 96 OVER THE STRAITS AT HARKERS ISLAND ON SR 1335 (ISLAND ROAD).	\$36,400,000			
3/17/2020	C204446	B-4626	ROWAN	9	REPLACE BRIDGE 3 OVER YADKIN RIVER AND WINSTON-SALEM SOUTHBOUND RAILROAD ON NC 49 (EASTBOUND LANE).	\$16,100,000			
4/21/2020	C204434	B-4484	CRAVEN	2	BRIDGE 138 AND BRIDGE 139 OVER THE NEUSE RIVER ON SR 1470.	\$16,700,000			
4/21/2020	C204350	B-5980	NASH	4	I-95 INTERCHANGE IMPROVEMENTS AT SR 1544 (HALIFAX ROAD).	\$17,700,000			
5/19/2020	C204474	B-5612	PITT	2	REPLACE BRIDGE 24 OVER THE TAR RIVER ON NC 222.	\$11,500,000			
6/16/2020	C204490	B-5825	YADKIN	11	REPLACE BRIDGE 35 OVER THE YADKIN RIVER ON NC 67.	\$12,400,000			
6/16/2020	C204202	#	HENDERSON	14	15BPR.20 - I-26/US 74 WBL AND EBL OVER GREEN RIVER STRUCTURE NOS. 440112 AND 440108.	\$14,000,000			
			AUGUS.	T 20	19 TO JULY 2020 TOTAL COST ESTIMATE FOR BRIDGES > \$10 MIL	\$161,225,000			

## Garvee, Build NC, INFRA Projects 12-Month August 2019 to July 2020

- Build NC Bonds: 13 Projects
- Garvee Bonds: 13 Projects
- INFRA Grant: 5 Projects

# Build Grant - Bridge 77 Rural Bridges in 6 Divisions

Division	# Let	# Scheduled to Let	# Single Projects	# Bundled Projects	EDB	DBB
1	3	2	3	2	0	2
2	3	2	2	3	0	3
3	1	5	2	4	0	4
4	3	8	5	6	3	4
11	2	4	2	4	2	2
					4	2
12	0	3	1	2	1	1
Total	12	24	15	21	6	16

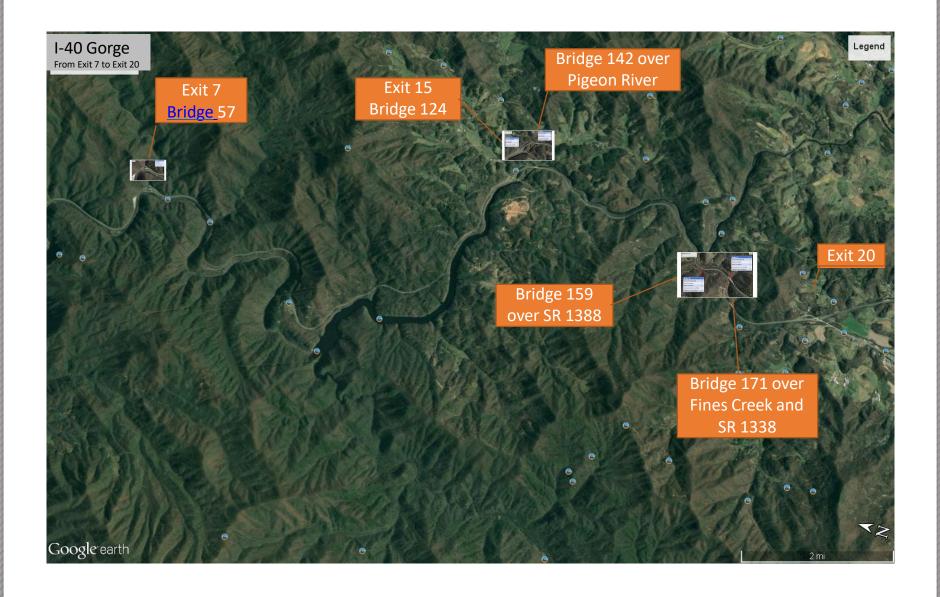
# CMGC Construction Manager General Contractor

# CMGC Construction Manager General Contractor

- 2018 S.B. 99 Appropriation Act
- Project Delivery Method Pilot Program
- Allows Construction Manager During Design Process
  - Constructability Reviews / TC Input
  - Scheduling Scenarios
  - Price Estimating
- Allows Department to utilize CM as the GC
  - Department and GC agree on a Construction Agreed
     Price (CAP)

# CMGC Construction Manager General Contractor

- Pilot up to 5 projects using this delivery method
- Projects less than \$100 Million
- CMGC Policy was developed w/ CAGC guidance
- Pilot Project Replacing 5 bridges on I-40 in Haywood County



















# **Safety**

# Respirable Crystalline SiO<sub>2</sub>

- Contained in sand, brick, concrete, mortar, ceramics, and stone
- Can effect lungs (cancer/silicosis), immune system, and kidneys



## 29 CFR 1926.1153

Went into effect September 23, 2017

Decreased permissible exposure limit
 (PEL) from ~200 μg/m³ to 50 μg/m³ over

8-hour TWA



## Respirable Crystalline Silica

Awareness training for NCDOT/CEI inspectors

**RIGHT** 





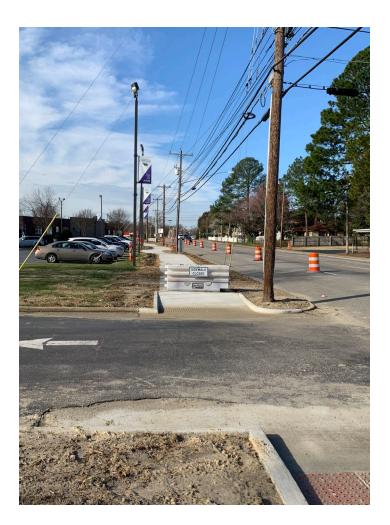




## Pedestrian Accommodations in Work Zone

2018 Policy Update
 NCDOT policy governs the level of accommodation for Pedestrian
 Traffic in Work Zones based on Pedestrian Volumes and it requires
 the use of ADA compliant Traffic
 Control Devices along the sidewalk

- 1) Absence of Need = Less than 10 Peds/Day
- 2) Basic Accommodation = 10 to 99 Peds/Day
- **3)** Moderate Accommodation = 100 to 499 Peds/Day
- **4) Full Accommodation** = 500 or more Peds/Day



## **AGC NCDOT Workshops**

- 2018 Workshop Follow-Up
  - Safety: OSHA 10 Hour for all CEI as of March 2019
  - Communication between AGC/NCDOT/ACEC

## Aggregate Base Course

Pilot - Roadway Assurance Sampling



# **Letting Website Updates**

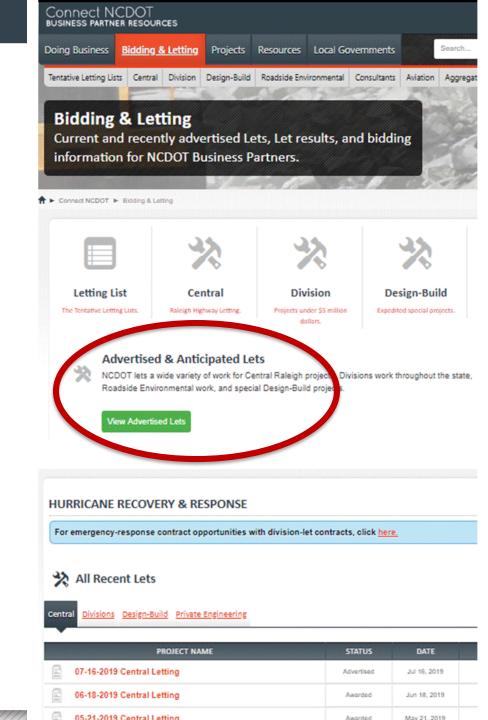
## **Concerns from Industry**

- Web site speed: slow opening and displaying information
- Navigating to 15 different sites to see advertisements

# One Site for Advertisements

- Connect NCDOT→
   Bidding & Letting
- One list of <u>ALL</u> NCDOT advertised and anticipated lets
- Customizable for your target advertisements
- Current letting sites unchanged

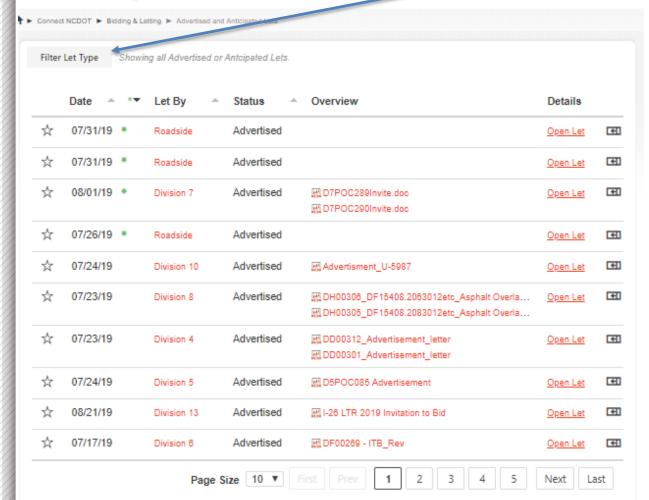
https://connect.ncdot.gov/letting/Pages/letting-roll-up.aspx





#### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets

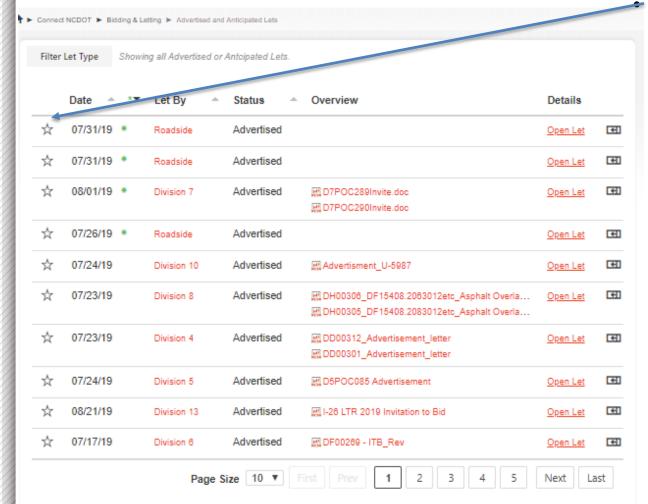


Filter Button at the top



#### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets



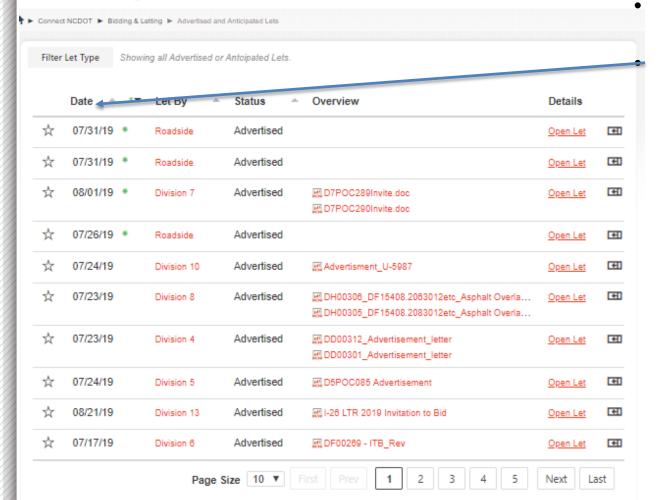
Filter Button at the top

**Favorites Flag** 



#### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets



Filter Button at the top

**Favorites Flag** 

Let Date





Favorites Flag

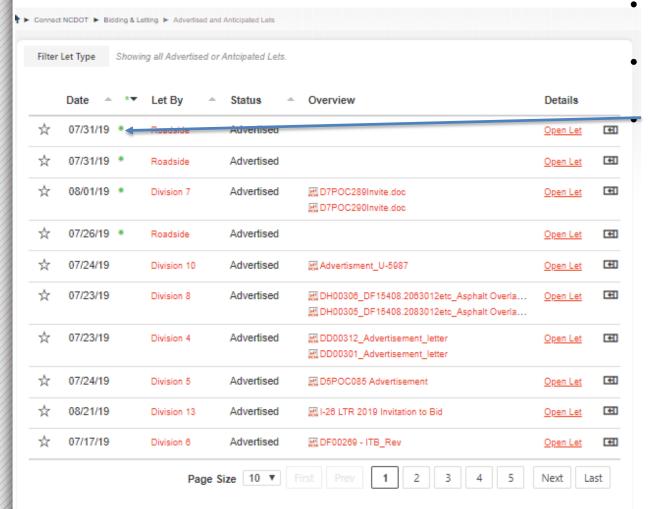
Let Date

**Recently Posted Flag** 



#### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets



For feedback and questions about our new Letting Rollup feature, please Contact Us. For questions about a specific letting, please head to that group's letting page and contact them from there.





Let Date

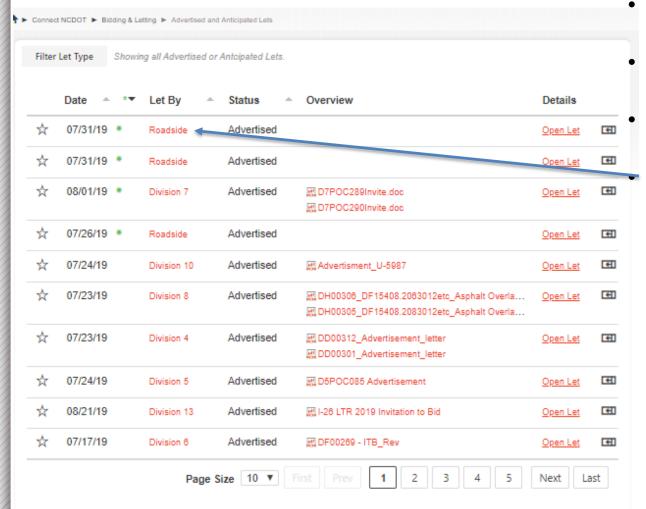
**Recently Posted Flag** 

**NCDOT** Responsible Unit



### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets







Let Date

**Recently Posted Flag** 

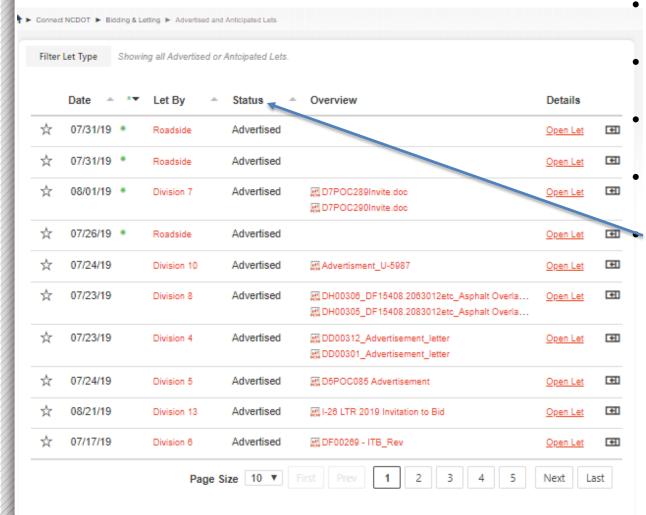
**NCDOT** Responsible Unit

Advertisement or Anticipated Advertisement Status



### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets







Let Date

**Recently Posted Flag** 

**NCDOT** Responsible Unit

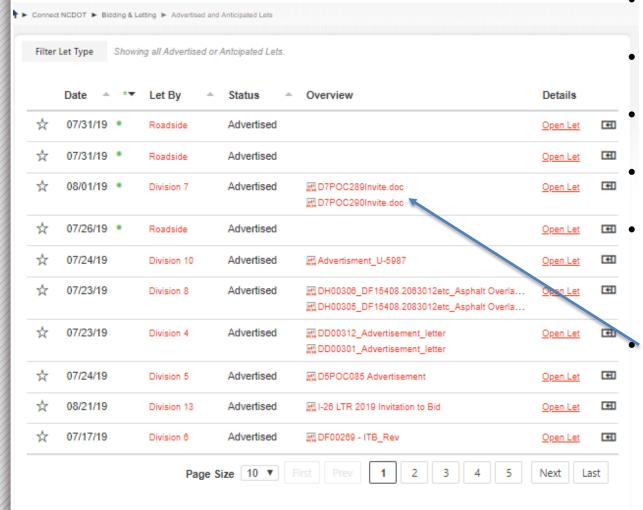
Advertisement or Anticipated Advertisement Status

Invitation to Bid or Advertisement Letter



### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets







Let Date

**Recently Posted Flag** 

**NCDOT** Responsible Unit

Advertisement or Anticipated Advertisement Status

Invitation to Bid or Advertisement Letter

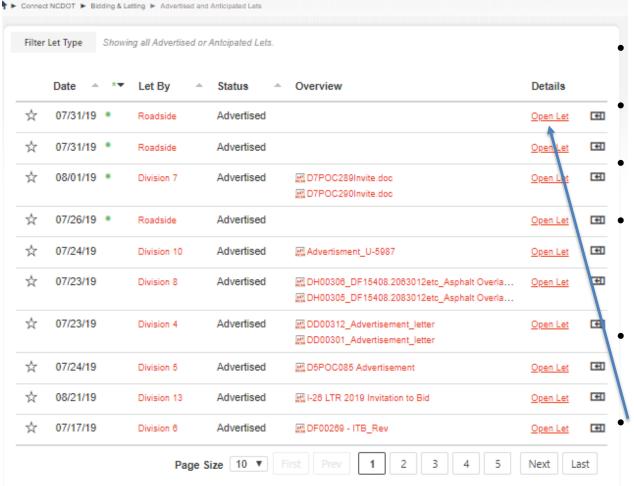
Open the Letting Page

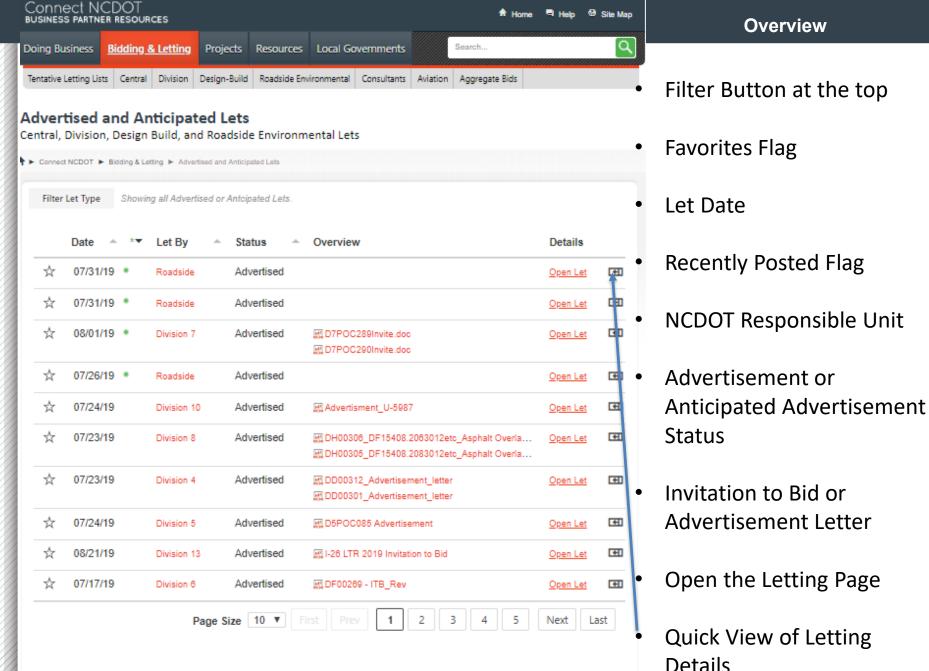


### Advertised and Anticipated Lets

Connect NCDOT

Central, Division, Design Build, and Roadside Environmental Lets







### **Advertised and Anticipated Lets**

Filter Let Type

Central, Division, Design Build, and Roadside Environmental Lets

Showing all Advertised or Antcipated Lets.

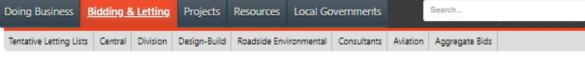
► Connect NCDOT ► Bidding & Letting ► Advertised and Anticipated Lets

	Date -	**	Let By	Status	Overview	Details	
₩	07/31/19	*	Roadside	Advertised		Open Let	
☆	07/31/19	*	Roadside	Advertised		Open Let	
☆	08/01/19	*	Division 7	Advertised	赋 D7POC289Invite.doc 때 D7POC290Invite.doc	Open Let	
₩	07/26/19	*	Roadside	Advertised		Open Let	
₩	07/24/19		Division 10	Advertised	III Advertisment_U-5987	Open Let	
À	07/23/19		Division 8	Advertised	쩺 DH00308_DF15408.2083012etc_Asphalt Overla DH00305_DF15408.2083012etc_Asphalt Overla	Open Let	
☆	07/23/19		Division 4	Advertised	교 DD00312_Advertisement_letter 교 DD00301_Advertisement_letter	Open Let	
₩	07/24/19		Division 5	Advertised	쩺 D5POC085 Advertisement	Open Let	
☆	08/21/19		Division 13	Advertised	國 I-26 LTR 2019 Invitation to Bid	Open Let	
Å.	07/17/19		Division 6	Advertised	國 DF00289 - ITB_Rev	Open Let	

For feedback and questions about our new Letting Rollup feature, please Contact Us. For questions about a specific letting, please head to that group's letting page and contact them from there.

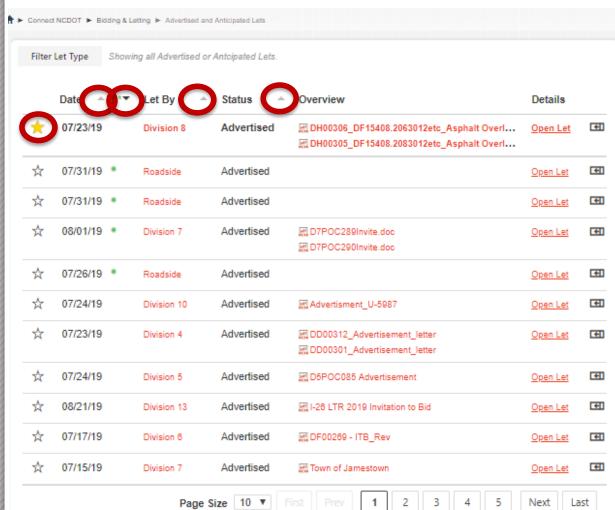
### Features:

Stars can be clicked "on" \* and "off" \* to keep your favorite individual advertised let at the top of your list.

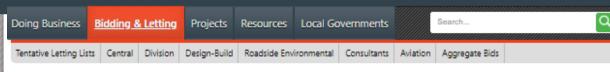


### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets

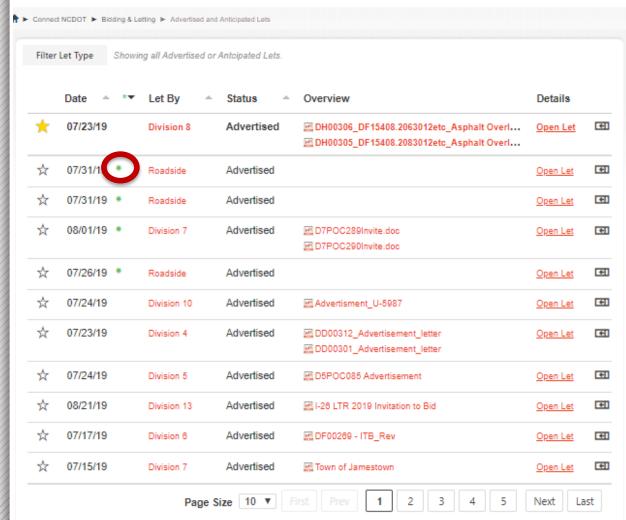


- Stars can be clicked "on" \* and "off" ★ to keep your favorite individual advertised let at the top of your list.
- Arrows allow you to sort columns



### Advertised and Anticipated Lets

Central, Division, Design Build, and Roadside Environmental Lets



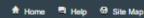
Stars can be clicked "on" \* and "off" \* to keep your favorite individual advertised let at the top of your list.

Arrows allow you to sort columns

Green asterisk means recently posted



Doing Business



Toggle All

Search...

Central

Roadside

Design Build

Division 1

Washington

Division 2

Division 3

Division 4

Bertie, Camden, Chowan,

Beaufort, Carteret, Craven. Greene, Jones, Lenoir, Pamlico,

Brunswick, Duplin, New Hanover,

Edgecombe, Halifax, Johnston,

Nash, Wayne, Wilson

Onslow, Pender, Sampson

Currituck, Dare, Gates, Hertford, Hyde, Martin, Northampton,

Pasquotank, Perguimans, Tyrrell,

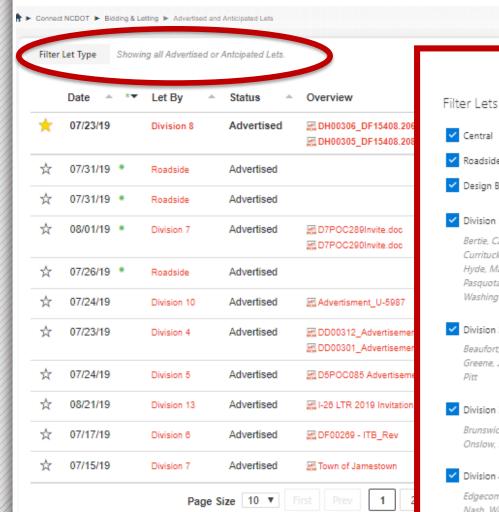
### **Features:**

Tentative Letting Lists | Central | Division Design-Build Roadside Environmental Consultants Aviation Aggregate Bids Advertised and Anticipated Lets

Projects Resources Local Governments

Bidding & Letting

Central, Division, Design Build, and Roadside Environmental Lets



Stars can be clicked "on" \* and "off" ★ to keep your favorite individual advertised let at the top of your list.

Arrows allow you to sort columns

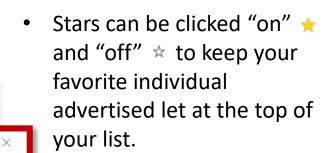
Green asterisk means recently posted

Filter lets you toggle all checks on and off. Check the NCDOT Unit lettings of interest to you.

Tentative Letting Lists | Central | Division |

Doing Business

Search..



Arrows allow you to sort columns

Green asterisk means recently posted

Filter lets you toggle all checks on and off. Check the NCDOT Unit lettings of interest to you.

The website remembers your choices!

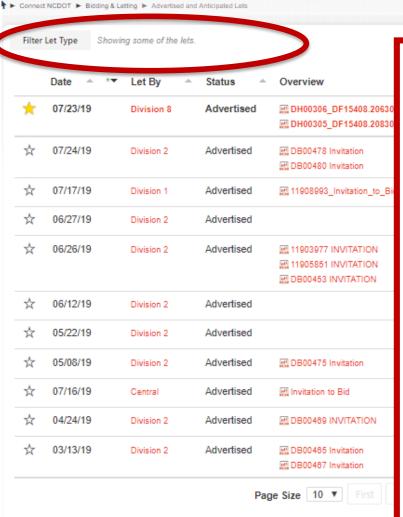
### Advertised and Anticipated Lets

**Bidding & Letting** 

Central, Division, Design Build, and Roadside Environmental Lets

Projects Resources Local Governments

Design-Build Roadside Environmental Consultants Aviation Aggregate Bids



Filter Lets Toggle All Roadside Design Build Division 1 Bertie, Camden, Chowan, Currituck. Dare. Gates. Hertford. Hyde, Martin, Northampton, Pasquotank, Perquimans, Tyrrell, Washington Division 2 Beaufort, Carteret, Craven. Greene, Jones, Lenoir, Pamlico. Pitt Division 3 Brunswick, Duplin, New Hanover, Onslow, Pender, Sampson

Division 4

Edgecombe, Halifax, Johnston,

Nash, Wayne, Wilson

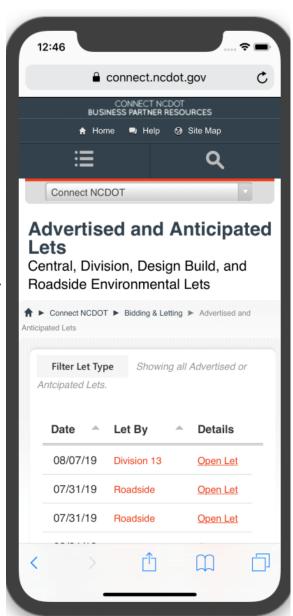
## Final Notes on Site

- Optimized to work on mobile devices like Android or iPhones
- Your favorites and filters will be remembered on subsequent visits on SAME device
- Because we don't require a login, your work computer favorites and stars will not be remembered on your phone or personal computer. You will have to set up your favorites on each device separately.

WE WANT YOUR FEEDBACK –







# **E-Ticketing**

- Benefits
  - SAFETY! Reduce Worksite Hazards
  - Eliminate Paper Tickets
  - No More Lost Tickets



- Provide Materials & Tonnage Verification
- Quickly Summarize Tickets for Payment

# E-Ticketing

### How it Works

- Geozones Plant Site, Job Site, Washout Site, Discharge Locations
- Scale Integration Pulls Data Directly from Batch Software
- Timestamps Ticketed, Left Plant, On Site, Leaving Site
- Test Results Realtime Communication to Producer
- Calculations Automatically Calculates Tonnages
- Dashboard Project Monitoring from Any Location
- Signatures Required for Acceptance
- Downloadable .pdf's of Tickets or Summaries for Document Management
- Other File Formats .csv, etc. for Asset Management



# **E-Ticketing**

- Next Steps
  - Create a Project Special Provision
  - Pilot on New & Existing Projects



### ELECTRONIC DELIVERY MANAGEMENT SYSTEM

### General

This Special Provision contains requirements for incorporating a Global Positioning System (GPS) Fleet Management System for materials that are compensated by ticket. The system shall be used to monitor, track, and report loads of materials during the construction processes from the point of measurement and load-out to the point of incorporation into the project. The use of this technology is referred to as e-Ticketing.

### Equipment

At least 30 days prior to use, the Contractor shall submit, to the Engineer, a Global Positioning System (GPS) Fleet Management System supplier that can provide a qualified representative for on-site technical assistance during the initial setup, pre-construction verifications, and data management and processing as needed during the project to maintain equipment.

Contractor shall provide operator settings, user manuals, and required viewing/export software for review, and ensure the equipment will meet the following:

- The Fleet Management system shall include a device that is capable of GPS tracking of vehicles and is installed on all dump trucks, pavers, materials transfer vehicles, or any other vehicle used, to incorporate materials into the project. Department personnel shall have the ability to access Real-Time monitoring using a state-furnished mobile device such as an iPad, smartphone, etc.
- The Fleet Management system shall be fully integrated with the Contractor's Load Read-Out scale system at the HMA plant site or quarry.
- The Fleet Management system shall have the ability to measure and track vehicles and
  their contents continuously from the plant site or quarry to the project site. The system
  shall have offline capabilities due to loss of power or GPS connectivity. To be considered
  continuous, no two data points shall be more than 60 seconds apart unless the vehicle is
  stopped. Stop times shall be recorded.

HMA plant sites or quarries shall have a reliable, stable internet connection.

### Construction

### (a) Construction Requirements.

Contractor shall install and operate equipment in accordance with the manufacturer's specifications. Contractor shall also verify that the GPS is working within the requirements of this Developmental Specification.

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# Questions?

