



# NORTH CAROLINA

Department of Transportation



# Value Management Office

## AGC Construction Conference

# Value Management Team

Alyson Tamer, PE, CPM



Clare Fullerton, PE



Haadi Sadaghiani

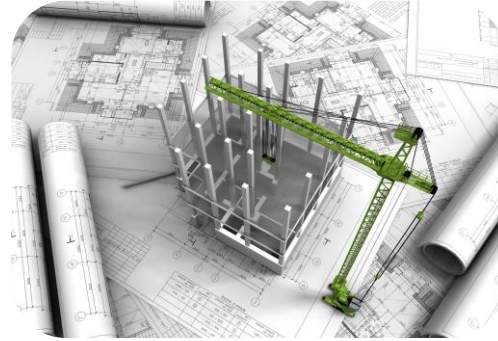


Roe Brybag, PE

# Value Management Office



Value Engineering Program



Constructability Review Program



Value Engineering Proposal Program



Risk Assessment Program



CLEAR Program

# CLEAR

Communicate Lessons,  
Exchange Advice, Record.

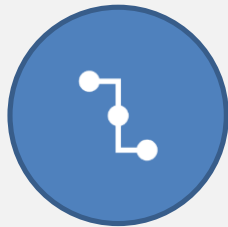




What is  
CLEAR?

- Program to support internal communication, knowledge sharing, creativity, and innovation.

# WHY was CLEAR developed?



Feedback loops created between regions and units.



Innovations shared and vetted.



Institutional knowledge stored.



Ideas on any topic related to NCDOT.

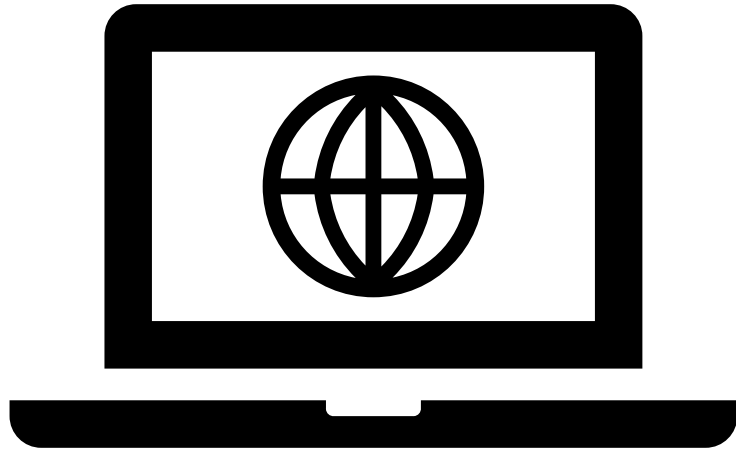


Approved submissions searched and shared.



Enhanced communication and knowledge share.

# **CLEAR is found on a SharePoint Site**



- Connect Site
- NCDOT Employees
- Mobile friendly
- Data Analytics

# What happens to a submission?



NCDOT personnel with NCDOT email can submit any Lesson Learned, Best Management Practice, or Request for a Solution.



This submission goes through the Value Management Office and is reviewed.



The submission is then sent to the experts to review and provide their expertise and guidance.



Accepted submissions are published in the accepted lists that can be keyword searched, reviewed, filtered, and alerts can be set up for items.



# You Can't Solve Upstream Problems Down Stream

CLEAR helps bring the feedback from construction and maintenance back to planning or design.



IDEA

Problem  
 Opportunity

# CLEAR FORM



Did you overcome a challenge in work, have a suggestion to solve an obstacle, or have a best practice to share?

Please fill out the form so we can...

... share your lessons learned, advice or best practice.

... make improvements based on your lesson learned, shared advice and best practices.



Take a form to fill out later and email it to [CLEAR@ncdot.gov](mailto:CLEAR@ncdot.gov)

After acceptance, this will be included in the CLEAR database and you will be informed of the workflow.

# Have you been involved in a Constructability Review?



# Constructability Review Program



## Benefits

- Work out potential field issues while the project is still being designed
- Provide a better understanding between design and construction
- Provide contractor input on design issues (coordinate with the AGC)
- Potential cost savings, risk reduction and/or time reduction

# Research

- **Ongoing project:** Review and enhancement of Constructability Review process and program.
  - Please participate in interviews if you are contacted by the research team out of ITRE.
- **Upcoming project:** Establish guidance on Constructability of DMUIs and Use of 4D model techniques (adding time/schedule to 3D geometry)
  - Interested in participating on the committee or being a friend of the committee?  
Contact Clare Fullerton, PE – [cefullerton@ncdot.gov](mailto:cefullerton@ncdot.gov)

# Risk Assessment Program

## Benefits

- Identify risks and develop strategies to address them
- Provide clarity to reduce risks or consequences of risks
- Ideally better estimates
- Support project delivery by reviewing critical projects

Risks may be unavoidable, so it's important to have a plan to address them- making them a calculated risk.



# Research

- **Ongoing project:** Review and enhancement of Risk Assessment process and program.
  - Please participate in interviews if you are contacted by the research team out of ITRE.



Have you been involved in the submission of a Value Engineer Proposal?





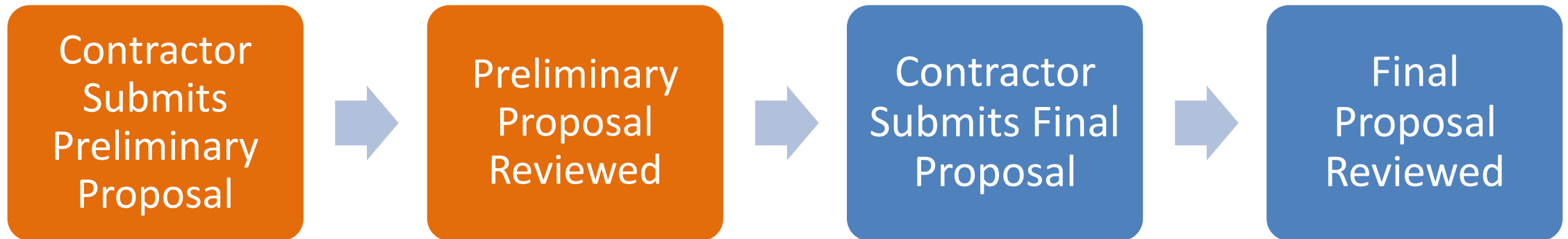
# Value Engineering Proposal

A Value Engineering Proposal (VEP) brings an innovative idea and savings to the Department from a Contractor.

- Contractor Idea
- Savings split 50/50 between NCDOT and Contractor
- Minimum \$10,000 savings threshold
- Contractor covers cost associated with proposal submission



# VEP Process

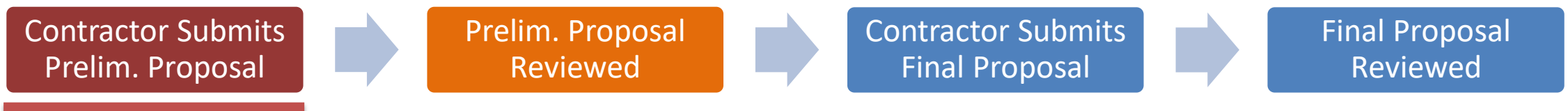


# Contractor Submits Preliminary Proposal

Proposal should include:

- Description of proposed change, including benefits
- Estimated cost savings with breakdown
- Sketch, mark-ups on existing plan sheets

Benefit is to see if idea has merit before developing fully.



# Preliminary Proposal Reviewed

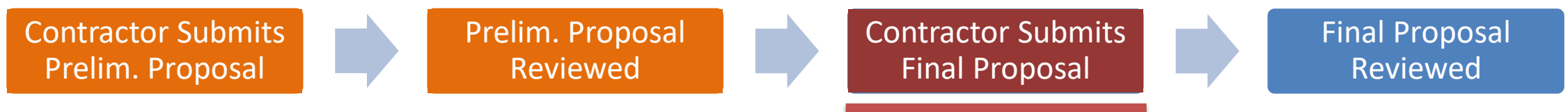
- Reviewed by Resident Engineer, Value Management Office, and Technical Units
- Review the validity of the VEP
- If accepted – Contractor prepares Final Proposal



# Contractor Submits Final Proposal

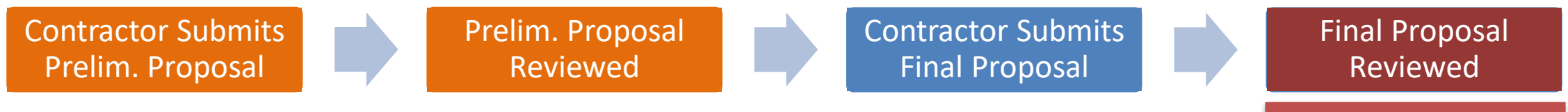
Final Proposal must include:

- Design Calculations
- Contract Plan Sheet Modifications
- Contract Document Changes
- Cost Savings Estimate based on Contract line items



# Final Proposal Reviewed

- Reviewed by the Division Resident Engineer, Value Management Office, Technical Unit
- Construction Unit signs off on approval
- Supplemental Agreement executed, includes the portion of the cost savings owed to the Contractor



# NCDOT Connect Site- Select Projects → Value Management

The screenshot shows the top navigation bar of the NCDOT Connect website. The header includes the text "Connect NCDOT BUSINESS PARTNER RESOURCES" and navigation links for "Home", "Help", and "Site Map". Below this is a main menu with categories: "Doing Business", "Bidding & Letting", "Projects" (highlighted in red), "Resources", and "Local Governments". A search bar is located to the right of the main menu. Below the main menu is a secondary navigation bar with sub-categories: "Planning", "Construction", "Research", "Roadway Design", "Work Zone", "Contracts", "Toolkit", "Bike & Pedestrian", "Project Management", and "Value Management" (highlighted in red).

## Value Management Office

The Value Management Office (VMO) has five programs that are focused on enhancing project delivery at every phase of a project's life. The programs work to bring innovation to NCDOT projects and engage the Department to share ideas and knowledge.

Home ▶ Connect NCDOT ▶ Projects ▶ Value Management



### CLEAR Program

The CLEAR Program collects lessons learned, innovative ideas, and best management processes to be shared throughout the Department.

[Read More](#) →

### Constructability Review Program

The Constructability Review Program reviews projects during development identify, examine, and resolve constructability challenges through a partnership with the AGC.

[Read More](#) →

### Risk Assessment Program

The Risk Assessment Program applies a risk assessment process to projects and programs to identify and mitigate potential risks.

[Read More](#) →

### Value Engineering Program

The Value Engineering Program applies FHWA's value analysis through Value Engineering studies prior to the project letting.

[Read More](#) →

### Value Engineering Proposals Program

The Value Engineering Proposal Program supports Contractor time and money saving ideas through review of proposals submitted by Contractors during construction based on the Specification.

[Read More](#) →

### VMO Links

[Report Recycling](#)

[CLEAR Submission](#)

[NCID Page](#)

### VMO Guidelines

[External Guidelines](#)



[Fact Sheet](#)



**State Value Management Engineer -  
Alyson Tamer, PE, CPM**

[valuemanagementunit@ncdot.gov](mailto:valuemanagementunit@ncdot.gov)



**Employee Directory**  
Staff contacts for *Value Management*.



Program	Contact
Communicate Lessons, Exchange Advice, Record Program (CLEAR) Constructability Review Program (CRP)	Clare Fullerton, PE <a href="mailto:cefullerton@ncdot.gov">cefullerton@ncdot.gov</a> 919-707-6683 <a href="mailto:CLEAR@ncdot.gov">CLEAR@ncdot.gov</a>
Risk Assessment Program (RAP) Value Engineering Program (VEP)	Haadi Sadaghiani <a href="mailto:hsadaghiani@ncdot.gov">hsadaghiani@ncdot.gov</a> 919-707-6681
Risk Assessment Program (RAP) Value Engineering Program (VEP) Value Engineering Proposal Program (VEPP)	Roe Brybag, PE <a href="mailto:rbrybag@ncdot.gov">rbrybag@ncdot.gov</a> 919-707-6684
State Value Management Engineer  <a href="https://connect.ncdot.gov/projects/Value-Management/">https://connect.ncdot.gov/projects/Value-Management/</a>	Alyson Tamer, PE, CPM <a href="mailto:awtamer@ncdot.gov">awtamer@ncdot.gov</a> 919-707-6682 <a href="mailto:valuemanagementunit@ncdot.gov">valuemanagementunit@ncdot.gov</a>