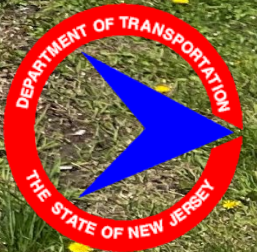


NEW JERSEY DEPARTMENT OF TRANSPORTATION

DIVISION OF LOCAL AID

NJSME Presentation
June 10, 2020





Laine Rankin | Director
Komila Pandit | Program Manager

Local Aid and Economic Development

- What's New?
- IRI–International Roughness Index
- Local Aid Project Management and Reporting System

STATE AID APPLICATION DEADLINE

JULY 1, 2020



Municipal Aid



Bikeways



Transit Village



Safe Streets to Transit

AWARD ANNOUNCEMENT

NOVEMBER, 2020



Administrative Code 16:20B-6.2

Municipal Aid

- Award must be within 24 months of grant notification
- Municipality can voluntarily cancel with no impact
- If deadline cannot be met:

Local Aid must be informed 30 days prior to the deadline.

MA 19 Deadline is March 25, 2021



Extraordinary Circumstances for POSSIBLE Extension

**Narrowly
defined**

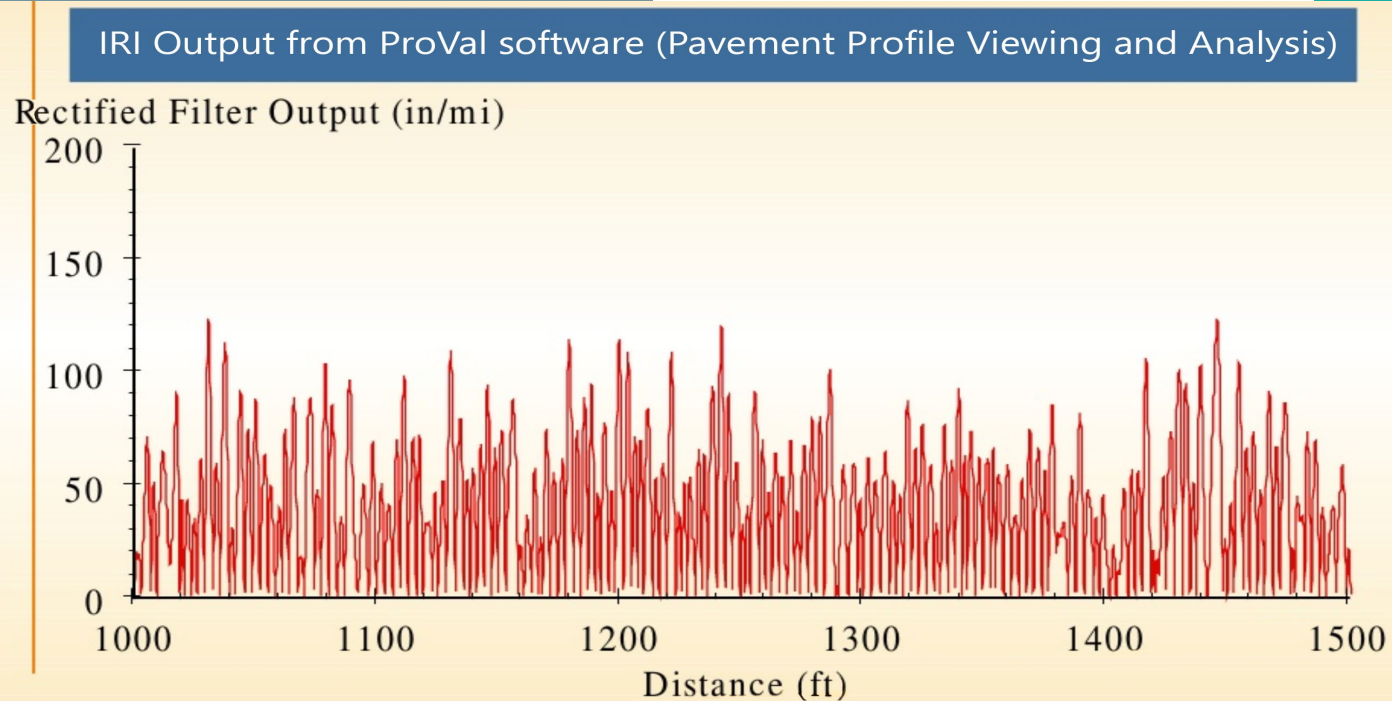
- Bidding problems
- Permits not approved
- Utility relocations
- ROW not available
- Declared State of Emergency by Governor of NJ or President
 - How did the ER preclude advancing the project?

INTRODUCTION TO INTERNATIONAL ROUGHNESS INDEX (IRI)

- What is IRI?
- Why are we required to measure IRI?
- Where are we required to measure IRI?
- How do we get information about a roadway's current IRI?



WHAT IS IRI?



- A measurement of roadway smoothness/roughness
- Calculated from measuring the longitudinal profile of a roadway & vehicle response
- Important because it affects ride quality, safety, fuel consumption, maintenance costs, and vehicle delay costs.
- Measured in units of inches per mile

WHY ARE WE REQUIRED TO MEASURE IRI?

- A biennial Conditions & Performance report of the future highway investment needs of the nation is mandated by Congress (23 U.S.C. 502(h))
- The Highway Performance Monitoring System (HPMS) data is used for assessing highway system performance under the U.S. DOT and FHWA's planning and performance reporting process in accordance with GPRA, Sections 3 and 4 & for apportioning Federal-aid highway funds in accordance with title 23, U.S.C.
- 23 CFR Part 490 is the Highway chapter on National Performance Management Measures in the code of federal regulations



WHY ARE WE REQUIRED TO MEASURE IRI? *(Continued)*

- 23 CFR § 490.103 requires State DOTs to document and submit data about routes designated on the Interstate System and the National Highway System (NHS) to the FHWA in accordance with the HPMS Field Manual.
- 23 CFR § 490.105 requires State DOTs to establish performance targets for the condition of pavements on the Interstate System and the NHS.
- 23 CFR § 490.107(b) requires State DOTs to report to FHWA baseline condition/performance data every two years on a biennial basis.
- 23 CFR § 490.309 asserts that IRI data must be collected and contained in the report to the FHWA, along with rutting, faulting and cracking percent.



WHERE ARE WE REQUIRED TO MEASURE IRI?

- National Highway System (NHS)
- Interstate System / NJDOT Jurisdiction Roadways
- All other local roadways are not required to evaluate ride quality by IRI. The Special Provisions for State Aid Projects contains specifications for local roadways, should a municipality/county choose to measure ride quality.



2017 National Highway System Lane- Miles & Centerline Miles By Municipalities					
		LANE MILES		CENTERLINE MILE	
Municipality	County	Non-Interstate	Total Lane-Miles	Non-Interstate	Total Centerline Miles
Atlantic City	Atlantic	16.4	16.4	4.7	4.7
Egg Harbor Twp	Atlantic	0.2	0.2	0.1	0.1
Somers Point City	Atlantic	1.3	1.3	0.7	0.7
Ventnor City	Atlantic	1.4	1.4	0.7	0.7
SubTotal	Atlantic	19.3	19.3	6.2	6.2
Englewood City	Bergen	4.8	4.8	2.4	2.4
Fair Lawn Boro	Bergen	0.1	0.1	0	0
Fort Lee Boro	Bergen	0.2	0.2	0.1	0.1
Franklin Lakes Boro	Bergen	0.3	0.3	0.2	0.2
Lyndhurst Twp	Bergen	3.1	3.1	1.6	1.6
Ramsey Boro	Bergen	0.6	0.6	0.2	0.2
River Edge Boro	Bergen	0.1	0.1	0.1	0.1
Tenaflly Boro	Bergen	0.3	0.3	0.2	0.2
SubTotal	Bergen	9.6	9.6	4.7	4.7
Camden City	Camden	6	6	2.6	2.6
Gloucester City	Camden	1.1	1.1	0.5	0.5
SubTotal	Camden	7.1	7.1	3.2	3.2
Ocean City	Cape May	6.9	6.9	3.1	3.1
Wildwood City	Cape May	1	1	0.3	0.3
SubTotal	Cape May	7.9	7.9	3.3	3.3
East Orange City	Essex	4.6	4.6	1.5	1.5
Maplewood Twp	Essex	5.7	5.7	2.1	2.1
Millburn Twp	Essex	1.3	1.3	0.7	0.7
Newark City	Essex	72.3	72.3	20.8	20.8
Orange City	Essex	1.6	1.6	0.8	0.8
West Orange Twp	Essex	0.9	0.9	0.5	0.5
SubTotal	Essex	86.4	86.4	26.3	26.3
Deptford Twp	Gloucester	1.2	1.2	0.6	0.6
Washington Twp	Gloucester	1.6	1.6	0.7	0.7
Woodbury City	Gloucester	3.8	3.8	1.9	1.9
SubTotal	Gloucester	6.6	6.6	3.2	3.2

2017 National Highway System Lane- Miles & Centerline Miles By Municipalities					
Municipality	County	Non-Interstate	Total Lane-Miles	Non-Interstate	Total Centerline Miles
Bayonne City	Hudson	0.4	0.4	0.2	0.2
Harrison Town	Hudson	0.5	0.5	0.2	0.2
Jersey City	Hudson	9.8	9.8	3.8	3.8
Weehawken Twp	Hudson	1.6	1.6	0.7	0.7
West New York Town	Hudson	1.6	1.6	0.8	0.8
SubTotal	Hudson	13.8	13.8	5.7	5.7
Hamilton Twp	Mercer	7.3	7.3	1.8	1.8
Princeton	Mercer	0.8	0.8	0.4	0.4
Trenton City	Mercer	21.3	21.3	8.7	8.7
West Windsor Twp	Mercer	4.3	4.3	1.2	1.2
SubTotal	Mercer	33.7	33.7	12.1	12.1
East Brunswick Twp	Middlesex	0.2	0.2	0.1	0.1
Edison Twp	Middlesex	3.9	3.9	2	2
Metuchen Boro	Middlesex	1.1	1.1	0.6	0.6
New Brunswick City	Middlesex	1.4	1.4	1	1
Woodbridge Twp	Middlesex	1.7	1.7	0.8	0.8
SubTotal	Middlesex	8.4	8.4	4.4	4.4
Atlantic Highlands Boro	Monmouth	0.5	0.5	0.2	0.2
Freehold Boro	Monmouth	2.6	2.6	0.6	0.6
Freehold Twp	Monmouth	0.1	0.1	0.1	0.1
Highlands Boro	Monmouth	0.4	0.4	0.2	0.2
Middletown Twp	Monmouth	5.4	5.4	2.7	2.7
SubTotal	Monmouth	9	9	3.9	3.9
Madison Boro	Morris	0.9	0.9	0.5	0.5
Morris Twp	Morris	1.2	1.2	0.6	0.6
Morristown Town	Morris	2	2	0.7	0.7
SubTotal	Morris	4.1	4.1	1.7	1.7
Paterson City	Passaic	12.3	12.3	4.6	4.6
Wayne Twp	Passaic	6.7	6.7	1.9	1.9
SubTotal	Passaic	18.9	18.9	6.5	6.5
Elizabeth City	Union	21	21	6.1	6.1
Union Twp	Union	0.5	0.5	0.2	0.2
Westfield Town	Union	0.1	0.1	0.04	0
SubTotal		21.5	21.5	6.3	6.4
Phillipsburg Town	Warren	1.1	1.1	0.6	0.6
Grand Total		247.5	247.5	88	88

HOW DO YOU GET IRI DATA FOR YOUR LOCAL ROADWAYS?

- Current IRI data for paving routes designated NHS or NJDOT jurisdiction can be made available by request by contacting Simon Nwachukwu at Simon.Nwachukwu@dot.nj.gov.
- [The Pavement Data Quality Management Programs](#) of the [New Jersey Transportation Asset Management Plan](#) covers in detail NJ's methods of how IRI, rutting, faulting and cracking percent data are collected, what equipment is used and how it is calibrated and certified, the certification process for persons performing data collection, data control measures, data sampling and the review and checking processes, and error resolution procedures.
- Questions about how NJ handles the requirements of 23 CFR Part 490 can be answered in the Pavement Data Quality Management Programs.



Post-Construction IRI

- Local Aid projects are required to have an independent testing agency perform post-construction IRI Testing. The testing agency is required to comply with testing and certification requirements according to NJDOT R-1.
- 15% of State Aid grant amount can be delegated toward construction inspection & material testing – IRI testing included.
- Prequalified Consultants list developed by Procurement: https://www.state.nj.us/transportation/business/procurement/ProfServ/prequal_consul_dicip.shtm

Consultants:

- AID
- WSP
- Stantec
- HNTB
- Michael Baker International

PENALTY COMPARISON

Special Provisions for State Aid Projects FY 2019

Table 401.03.07-7 Pay Adjustment Equations (PAE) for Ride Quality			
Pay Equation Type	Exclusions	Pay Equations	
PA1	As shown in the Special Provisions Table 401.03.07-7A	$IRI < T$	$PA1 = 0^2$
		$T \leq IRI \leq 170$	$PA1 = PAE$
		$IRI > 170$	$PA1 = -A$ or Corrective action
PA2	Will include, if tested	$IRI \leq 120$	$PA2 = 0^2$
		$120 < IRI \leq 170$	$PA2 = (IRI - 120) \times (-\$5.00)$
		$IRI > 170$	Maximum Negative Pay or Corrective action
PA3	Will include, if tested	$IRI \leq 120$	$PA3 = 0^2$
		$120 < IRI \leq 170$	$PA3 = PAE$
		$IRI > 170$	$PA3 = -A$ or Corrective action
PA4	Will include, if tested	$IRI \leq T$	$PA4 = 0^2$
		$T < IRI \leq T+80$ or 170 whichever is higher	$PA4 = (IRI - T) \times (-\$1.25)$
		$IRI > T+80$ or 170 whichever is higher	Maximum Negative Pay or Corrective action

Standard Specifications for Road and Bridge Construction 2019

Table 401.03.07-7 Pay Adjustment Equations (PAE) for Ride Quality			
Pay Equation Type	Exclusions	Pay Equations	
PA1	As shown in the Special Provisions Table 401.03.07-7A	$IRI \leq 170$	$PA1 = PAE$
		$IRI > 170$	$PA1 = -A$ or Corrective Action
PA2	Will include, if tested	$IRI \leq 120$	$PA2 = \$0$
		$120 < IRI \leq 170$	$PA2 = (IRI - 120) \times (-\$10.00)$
		$IRI > 170$	Maximum Negative Pay or Corrective action
PA3	Will include, if tested	$IRI < T$	$PA3 = PAE$
		$T \leq IRI \leq 120$	$PA3 = 0$
		$120 < IRI \leq 170$	$PA3 = PAE$
		$IRI > 170$	$PA3 = -A$ or Corrective Action

Local Aid PMRS

Komila Pandit | Program Manager

NJDOT Local Aid & Economic Development

WHY PMRS

Commitment to embrace emerging technology to be more efficient in all functional areas

- Enterprise Project Tracking & Reporting
- Efficient workflow
- Electronic Document Library
- Electronic Document Routing
- All Employers on one platform
- Accessible/Mobile



All Phases Of Project Development

PLANS, SPECS, AND ESTIMATES

CONCEPT DEVELOPMENT

PRELIMINARY ENGINEERING

FINAL DESIGN

CONSTRUCTION

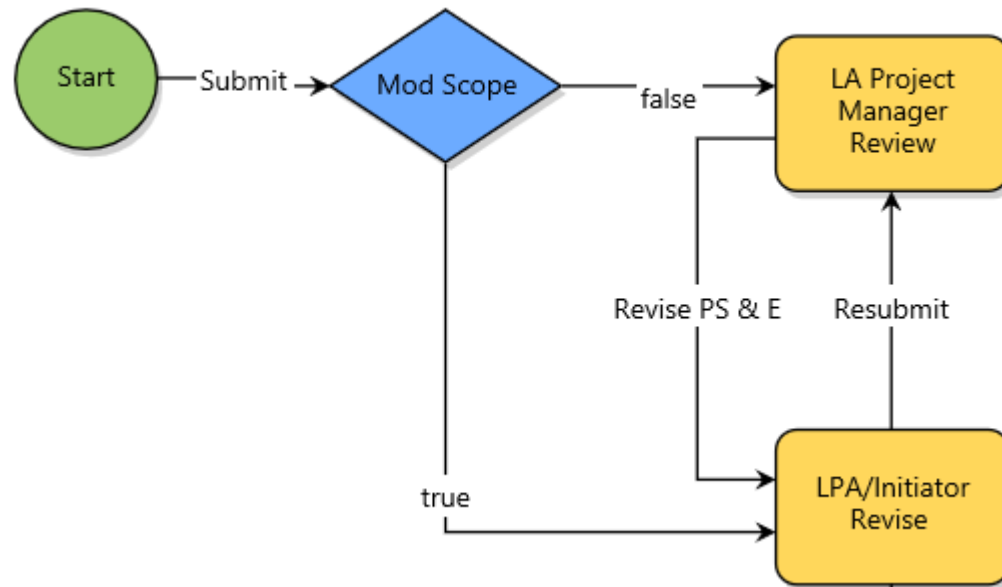
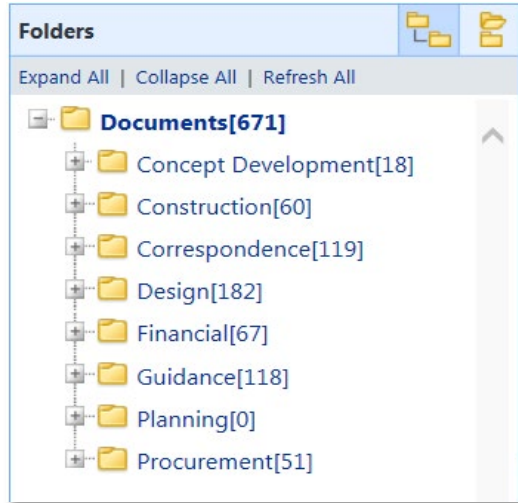
Project Management & Reporting System



**Seamlessly integrates Bluebeam
and data from other systems**



Project Management & Reporting System



Who can start this process?

02LA-LPA CFO
02LA-LPA Clerk
02LA-LPA PM
02LA-LPA Presiding Officer



Project Management & Reporting System

e-Builder
A TRIMBLE COMPANY

Switch to Classic style

Veronica.Murphy@dot.nj.gov

Home Dashboard **Projects** Forms Processes Documents Calendar Contacts Bidding Cost Schedule ...

PMRS

Recent Pages...

Project Menu

- Details
- Project Participants
- Sent Items
- Forms
- Issues
- Processes
- Documents
- Schedule
- Cost
- Contacts
- Calendar
- Submittals

Project Details For 983420 - Bloomfield Avenue Bridge

Details

Project Name	Bloomfield Avenue Bridge
e-Builder Project Administrator	Szargowicz, Pam
Project Status	Active
(view map) Address	
Country	
Start Date	12.14.2017
Target Date	12.14.2017
Description	
Project Webcam	
Last Modified By	Chukkappalli, Geeta
Date Last Modified	03.25.2020
Web Links	GIS Map

No project photo uploaded.

Export Address Book Printable Participants Directory Cancel

Custom Fields (141) Notes (0) Documents (0) Forms (0) Processes (0) Settings

Scope Statement Controls: -----SCOPE STATEMENT CONTROLS-----

UAT?: No

Project Attributes: -----PROJECT ATTRIBUTES-----

Project ID: 983420

DB Number: 98342

DP Number:

Estimated Number of ADA Ramps:

NJ DOT Municipal Aid Project Editor

Search All

(1 of 5)

Reconstruction of Elm Ave

Project Title	Reconstruction of Elm Ave
Project ID	
Improvement Type	Roadway Preservation
County	CAMDEN
Municipality	Woodlynne Borough
Grant Amount (\$)	200,000.00
Award Year	2016
Project Status	Construction Completed
Notes	
Digitization Status	Final Review Complete
Zoom to	



HOW DO WE GET THERE

1

State Aid Programs

Municipal Aid.. Bikeway, Safe Streets to Transit, Transit Village

2

State Aid Programs

Other State Aid Programs

3

Federal Aid Programs

What this means for you

- **Role based access**
- **Integrated Project Management**
- **Electronic submissions**
- **Electronic notifications**
- **Real time reviews and approvals**
- **Quicker turn around times**
- **Seamless transition**



PROJECT MANAGEMENT PROCESS

- PS&E Package Submission from LPAs
- PS&E Review by Local Aid project managers and SMEs
- Bid tabulation and Award Resolution Submission
- Review and Award Concurrence

PROJECT MANAGEMENT PROCESS

Railroad Coordination		
If Railroad Engineering reviewed your plans, please attach the letter.		
<p>* Does the project propose changes to a railroad at grade crossing?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Is the project within 1,000 feet of an at-grade crossing on the approach roadway?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Is the project parallel to a railroad within 200 feet?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Is the project related to Quiet Zone Crossing?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	Bureau of Structural and Railroad Engineering Services (BSRES) Unit Letter:	<p>Drag and drop file here or Browse Computer</p> <p>Browse e-Builder</p>
Design Exception		
If you answer "No" to the following questions, please attach the corresponding form or document.		
<p>* Does the project conform to the current AASHTO standards?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Does the design of traffic barriers and drainage systems conform to the NJDOT Roadway Design Manual?: </p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Do road and bridge designs conform to the current NJDOT MUTCD standards?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>* Have you confirmed there are no other deviations from the standards?:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	Design Exception Report:	<p>If you answered "No" to any of the questions in this section, please attach the documentation here.</p> <p>Drag and drop file here or Browse Computer</p> <p>Browse e-Builder</p>

PROJECT MANAGEMENT PROCESS

Engineering Estimate

Please provide the Engineer's Estimate here.

* Engineer's Cost Estimate \$:	<input type="text"/>	* Engineer's Estimate:	HOLD CTRL to open PS & E Examples and Templates <input type="text" value="Drag and drop file here"/> or Browse Computer Browse e-Builder
--------------------------------	----------------------	------------------------	--

Plans, Specifications and Engineer's Certification

Please provide Plans, Specifications, and Engineer's Design Certification in this section.

Sample Plans: ?	HOLD CTRL to open PS & E Examples and Templates		
* Plans: ?	<input type="text" value="Drag and drop file here"/>	or	Browse Computer Browse e-Builder
Specifications Example:	HOLD CTRL to open PS & E Examples and Templates		
* Specifications: ?	<input type="text" value="Drag and drop file here"/>	or	Browse Computer Browse e-Builder
Engineer's Design Certification:	HOLD CTRL to open PS & E Examples and Templates		

LA Local Aid Management Process (LAMP)



Saved

Draft Saved Successfully.



Start Process

Print

Copy

Check Spelling

Show Workflow

Submit

Save Draft

Delete Draft

Cancel



PROJECT MANAGEMENT PROCESS

Processes

Reports (0)

Process

Subject

Step

In Step Since

Step Age ▲

Date Due

Status

Requested Comment

Responsible Actors

LAMP - 4

Plan and Specification Submission

LA Project Manager Review

06.09.2020

0

Submitted

Leia D3 LA- APM, Robert Decker

Print


Log

Details	Comments (0)	Attached Documents (4)	Attached Processes (0)	Attached Forms (0)	Attached To (0)
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Contract Document Submission

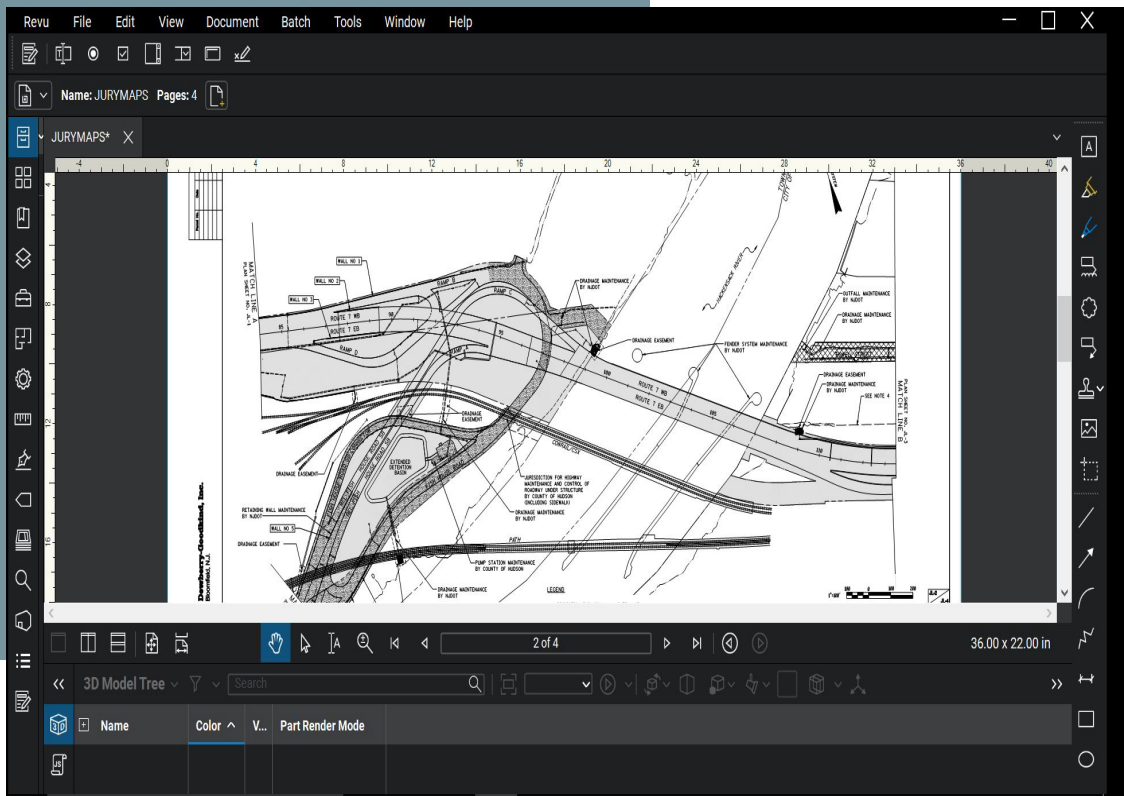
PLEASE PAY ATTENTION TO THIS SECTION

Pay Attention to the Following Sections:

Date of Expected PS & E Review Completion: 06.23.2020 

PMRS Take Away

- Accountability
- Transparency
- Reduce duplication of work effort
- Standardization
- Reduce backlog and turnaround time
- Reduce paper consumption
- Efficient collaboration
- Integrated Project Management



Your Participation

Plans, Specifications and Engineer's Certification

Please provide Plans, Specifications, and Engineer's Design Certification in this section.

Sample Plans: ?

Hold CTRL to open [PS & E Examples and Templates](#)

* Plans: ?

Plans.docx

or

[Browse Computer](#)

[Browse e-Builder](#)

Specifications Example:

HOLD CTRL to open [PS & E Example and Templates](#)

* Specifications: ?

SpecsTest.docx

or

[Browse Computer](#)

[Browse e-Builder](#)

Engineer's Design
Certification:

HOLD CTRL to open [PS & E Examples and Templates](#)

Test Page.docx

or

[Browse Computer](#)

[Browse e-Builder](#)

Engineer's Design
Certification Agreement:

This project is in substantial conformance with the applicable AASHTO design criteria subject to the attached design exceptions. Furthermore, the contract documents for the project require the workmanship and materials to be in substantial conformance with the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction as amended for State Aid projects. Additionally, I certify, that if applicable for this project, it is in conformance with and as stipulated in Public Law 2008 c. 110 for traffic ordinance regulating the passage or stopping of traffic at certain congested street corners or other designated points, including the establishment of multi-way stop controls as applicable to potential impacts to adjacent facilities, including state highways as noted in the law. Further, I certify that improvements involving traffic engineering features, i.e. designation or erection of signs or placement of pavement markings, parking prohibitions, establish speed limits, designation of one-way streets, etc. are in conformance with the current edition of the MUTCD for Streets and Highways and all supporting permits. Required documentation will be submitted as per this law, upon completion of the construction phase.

Engineer's Signature:

Engineer's Signature Date:

* Engineer's License ID:

12345

x

- **Contact:**
DOT-
LocalAID.ResourceCenter@dot.nj.gov

- Electronic Seal
 - Docu Sign
 - Blue Beam
- User Acceptance Testing
- Provide Input
- Test the system
- Participate in Pilot



PMRS Training



(609) 649-9395 [Ask an Expert](#)



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Learning Center

[Home](#) [Resources](#) [Learning Center](#)

The Learning Center provides training and instructional information developed specifically for New Jersey Local Public Agencies (LPAs) as well as information from various other sources that might be of interest to our LPA Community.

WHAT'S NEW

ADA Transition Plans



ADA Transition Plans

Federal ADA requirements
Title II 50+ / 504

3) Designate an ADA Coordinator

4) Establish and Publish a grievance procedure

5) And develop a Transition Plan

[Copy link](#)

Local Aid Training

[FHWA Emergency Relief Program Training Course](#)

+ CAIT Training

+ Federal-Aid Essentials

+ NJDOT Technology Transfer

- Presentations

- Listening Tour: Bridge
- Listening Tour: Contract Compliance
- Listening Tour: Environmental
- Listening Tour: NJ I-Bank
- Listening Tour: Pavement
- Pavement Ride Quality - NJSACE/NJDOT Quarterly Meeting, November 2019
- Pavement Thin Surface Treatments - NJSACE/NJDOT Quarterly Meeting, November 2019
- Coast Guard - NJSACE/NJDOT Quarterly Meeting, January 2020

Virtual Training

On Demand Video

ANY QUESTIONS?



FIND US ON SOCIAL MEDIA

 @NJDOTLOCALAID

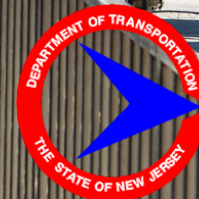
 @NJDOTLARC

 facebook.com/NJDOTLocalAid

 NJDOT Local Aid Resource Center

 NJDOT Local Aid Resource Center

THANK YOU!



RESOURCE CENTER
NJDOT LOCAL AID

