



Research Library Operations

Calendar Year 2016

FINAL REPORT

April 2018

Submitted by

Carol Paszamant
Research Librarian
New Jersey State Library
An affiliate of Thomas Edison State University

NJDOT Research Project Manager
Stefanie Potapa

In cooperation with

New Jersey
Department of Transportation
Bureau of Research
and
U. S. Department of Transportation
Federal Highway Administration

NOTICE

The United States government does not endorse products or manufacturers. Trade or manufacturers' names appear herein solely because they are considered essential to the object of this report.

DISCLAIMER STATEMENT

The contents of this report reflect the views of the author who is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the New Jersey Department of Transportation, the Federal Highway Administration, the New Jersey State Library, or Thomas Edison State University. This report does not constitute a standard, specification, or regulation.

TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. FHWA NJ-2018-002	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle FINAL REPORT Research Library Operations – Calendar Year 2016		5. Report Date April 2018	
		6. Performing Organization Code	
7. Author(s) Carol B. Paszamant http://orcid.org/0000-0002-2626-0068		8. Performing Organization Report No.	
9. Performing Organization Name and Address New Jersey State Library <i>An affiliate of Thomas Edison State University</i> PO Box 520 Trenton, NJ 08625-0520		10. Work Unit No.	
		11. Contract or Grant No. 16-60106	
12. Sponsoring Agency Name and Address Federal Highway Administration (SPR) http://dx.doi.org/10.13039/100006285 1200 New Jersey Avenue, SE Washington, DC 20590 New Jersey Department of Transportation (SPR) http://dx.doi.org/10.13039/100004847 1035 Parkway Avenue, P.O. Box 600 Trenton, NJ 08625.0600		13. Type of Report and Period Covered Final Report, January 2016 – December 2016	
		14. Sponsoring Agency Code FHWA, NJDOT	
15. Supplementary Notes Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration.			
16. Abstract <p>The NJDOT Research Library operates as a branch of the New Jersey State Library and is funded by the FHWA State Planning and Research Program as a research project. The library serves NJDOT employees; New Jersey state government employees; other libraries, organizations, and businesses; and members of the general public. Two certified professional Librarians provide reference and referral services, access to an online catalog and electronic documents, lending of materials from the collection or through interlibrary loan from other libraries, literature searches, and notifications of new materials and continuing education opportunities.</p> <p>The Research Library collects documents from a variety of sources including TRB, AASHTO, FHWA, other state DOTs, and NJDOT itself, particularly its Research Bureau. Located in the David J. Goldberg Transportation Complex at 1035 Parkway Avenue in Ewing, the Research Library provides services in full to New Jersey state employees. The general public may use the collection by appointment.</p>			
17. Key Words Library operations; Research; Information services; Knowledge services; Knowledge sharing; Technology transfer		18. Distribution Statement No restrictions.	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 160	22. Price

ACKNOWLEDGMENTS

The author wishes to acknowledge the support of NJDOT Research Bureau ex-Manager, Camille Crichton-Summers; current Manager, Amanda Gendek; Contract Manager, Stefanie Potapa; New Jersey State Library Supervising Librarian, Doris Murphy; State Library staff in Reference, Circulation, Law, and Technical Services; NJDOT staff and subject matter experts; library champions past and present, both internal and external, and other staff and customers without whom this project would not have been possible.

In addition, the author would like to acknowledge colleagues from across the nation and beyond, for their support, collaboration, and inspiration. Transportation librarians in the Special Libraries Association-Transportation Division; the regional Transportation Knowledge Networks (ETKN, MTKN, and WTKN); the Transportation Library Connectivity and Development Pooled Fund and its predecessor; the Transportation Research Board staff and other indexers for provision of TRIS/TRID/RiP databases, without which our jobs would be difficult if not impossible, and the *Transportation Research Thesaurus*; the TRB Library & Information Science for Transportation (LIST) Committee; and the various task forces and informal work groups – transportation librarians wear many hats, and volunteer their time and energy to support each other and our clientele. Thanks also to colleagues at the National Transportation Library (NTL) and Bob Cullen at the American Association of State Highway and Transportation Officials (AASHTO) for instituting, planning, hosting, and coordinating the monthly Transportation Librarian Roundtables – that endeavor represents a significant effort, and helps us better fulfill our functions in our own agencies. Much appreciation also goes to Northwestern University, and more recently the University of Michigan, for hosting TRANLIB, the transportation librarians' discussion group which, in addition to, and more broadly than the SLA collaboration site, provides a lifeline connection between us all.

Finally and most gratefully, the author would especially like to acknowledge the contributions and perseverance of coworker and Associate Librarian, Laurie Strow, who tirelessly enters metadata for the myriad new reports and other materials that come our way, assists staff with their information and item requests, performs the most mundane tasks of library work with nary a complaint, and handles all her interactions with grace.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
BACKGROUND	2
OBJECTIVES	3
INTRODUCTION.....	4
SUMMARY OF THE WORK PERFORMED	6
Output.....	8
<i>Requests for Information and/or Materials Fulfilled.....</i>	<i>8</i>
<i>Purchasing/Collection Development</i>	<i>11</i>
<i>Collection Maintenance</i>	<i>12</i>
<i>Other Services.....</i>	<i>12</i>
<i>Marketing</i>	<i>12</i>
<i>Collaboration and Networking</i>	<i>13</i>
<i>Reporting</i>	<i>14</i>
<i>Staff Training</i>	<i>14</i>
Challenges.....	15
<i>Space.....</i>	<i>15</i>
<i>Noise</i>	<i>15</i>
<i>Time.....</i>	<i>15</i>
<i>Funding</i>	<i>15</i>
<i>Perceptions / Awareness</i>	<i>16</i>
<i>Technical Challenges.....</i>	<i>16</i>
CONCLUSIONS AND RECOMMENDATIONS.....	17
REFERENCES AND RESOURCES	19
APPENDIX A: RESEARCH LIBRARY BROCHURE (TRIFOLD)	20
APPENDIX B: MONTHLY RESEARCH LIBRARY REPORTS.....	23
APPENDIX C: ANNUAL STATISTICS.....	63
APPENDIX D: QUARTERLY SELECTED RECENT ACQUISITIONS OF RESEARCH LIBRARY.....	66
APPENDIX E: OPEN HOUSE FLYER/POSTER	132
APPENDIX F: TRAINING MATERIALS	134
APPENDIX G: MANY PLACES – ONE PLANET INTERACTIVE POSTER	140
APPENDIX H: WOMEN’S HISTORY MONTH MATERIALS	143
APPENDIX I: NEW JERSEY HUMAN TRAFFICKING TASK FORCE PRESENTATION.....	146
APPENDIX J: ASCE LIBRARY WEBINAR.....	148
APPENDIX K: EASTERN TRANSPORTATION KNOWLEDGE NETWORK TRIFOLD BROCHURE	150

LIST OF FIGURES

Figure 1. Annual number of requests received per calendar year 2007-2016.....	8
Figure 2. Relative comparison of Research Library requests received by Requestor Affiliation, 2008, 2012, and 2016.....	8
Figure 3. Relative comparison of NJDOT library requests by assistant commissioner divisions for 2008 in MOB, 2012 on E&O 5 th floor, and 2016 on E&O 1 st floor.	9
Figure 4. Relative comparison of NJDOT library requests by building locations of assistant commissioner divisions for 2008, 2012, and 2016 when library was in MOB, E&O 5th floor, and E&O 1st floor respectively.	10
Figure 5. Relative comparison of NJDOT library requests by method of contact for 2008, 2012, and 2016 when library was in MOB, E&O 5th floor, and E&O 1st floor respectively.	11

ABBREVIATIONS AND ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
AIIM	Association for Intelligent Information Management
ASCE	American Society of Civil Engineers
CFO	Chief Financial Officer
CPM	Capital Program Management
DAG	Deputy Attorney General
DANJ	Documents Association of New Jersey
E&O	Engineering and Operations Building
ETKN	Eastern Transportation Knowledge Network
F&A	Finance and Administration Building
FE	Fundamentals of Engineering
FHWA	Federal Highway Administration
GIS	Geographic Information Systems
HRDI	Human Resource Development Institute
HR	Human Resources
IT	Information Technology
LIST	TRB Standing Committee on Library and Information Science for Transportation (ABG40)
LMS	Learning Management System
MOB	Main Office Building
MTKN	Midwest Transportation Knowledge Network
NJDOT	New Jersey Department of Transportation
NJLA	New Jersey Library Association
NJSL	New Jersey State Library
NTKN	National Transportation Knowledge Network
NTL	National Transportation Library
PE	Professional Engineer
RiP	Research in Progress (database)
SLA	Special Libraries Association
SPR	State Planning and Research
TESU	Thomas Edison State University
TLR	Transportation Librarians Roundtable
TPF	Transportation Pooled Fund
TRB	Transportation Research Board
TRID	Transportation Research Information Documentation (database)
TRIS	Transportation Research Information Services (database)
TRT	Transportation Research Thesaurus
WTKN	Western Transportation Knowledge Network

This page intentionally left blank

EXECUTIVE SUMMARY

The objective of the current study was to develop and improve the Research Library as a major resource for transportation knowledge sharing and technology transfer. In regard to public services, this involved provision of library reference and referral services to government employees, transportation and other professionals, and the general public. In regard to technical services, activities included selection, acquisition, processing, organization, storage, and maintenance of library materials for use by NJDOT staff and others. A communications component required marketing whenever possible, including by providing information on current resources and webinars to stakeholders, updating the website, and producing a quarterly list of new materials for posting on the website and intranet. Library staff enhanced their knowledge and skills by attending webinars, brown-bag presentations, and other library- and transportation-related events, and by participating in professional networks and committees.

This report examines representative years from the period from 2008 - 2016, during which the library moved in its entirety three separate times. Data presented shows the effect of the library's location on the relative number of requests originating from NJDOT staff in each of the three main Headquarters buildings and their respective assistant commissioner divisions.

Networking and collaboration with peers, colleagues, and customers, both internal and external, provide vital support as well as added responsibilities. Within NJDOT, the library staff cooperates with other units on projects of mutual interest, and also connects people from different units with each other or with others.

NJDOT library staff must continue to work with other units of the Department not only in filling their stated information needs, but in anticipating these needs, recognizing gaps in the Department knowledge structure, and engaging with units to build knowledge sharing tools and solutions for use throughout the organization.

BACKGROUND

Per the Research unit's original problem statement from early 1998: "The activities of the NJDOT's Research program have evolved to the point where a Research Library staffed by a certified professional Librarian is needed to support the research and technical work of the Department and its affiliated agencies. The State Library has established a branch library in the offices of the NJDOT and assigned a Librarian 1 to provide onsite library services to NJDOT."

The NJDOT Research Library reopened in February 1998 after a two-year hiatus following the retirement of the attending clerk who had overseen the collection on a part-time basis. NJDOT contracted with the New Jersey State Library, affiliated with Thomas Edison State University (previously Thomas Edison State College), for a professional Librarian to manage operations of the NJDOT Research Library and to provide library services to NJDOT staff and external customers.

Soon after the certified professional Librarian began work in February 1998, the NJ State Library supplied additional assistance in the form of a Principal Library Assistant. Several people have filled this latter position over the years, with the most recent, Laurie Strow, starting in June 2008. With her professional librarian certification and experience, the position was subsequently upgraded to a professional line (Librarian 3) the following year.

This report examines representative years from the period from 2008 - 2016, during which the library moved in its entirety three separate times.

OBJECTIVES

The main objectives of this research project were to operate and improve the Research Library as a major resource for transportation knowledge sharing and technology transfer. The mission of NJDOT, according to its website, is “Improving Lives by Improving Transportation.” In support of that mission, the Research Library aids NJDOT staff and other transportation professionals with their professional, research and information needs. Although library staff does not directly get involved with planning, design, construction, or maintenance of infrastructure, our endeavors turn the Department’s mission around: “Improving Transportation by Improving Lives,” i.e., the lives of NJDOT staff and others who work on the built environment.

By partnering with NJDOT staff and Department units whenever possible, and with other transportation libraries and entities, we endeavor to provide support to the organization and the industry, to assist people in their professional aspirations, and to fill gaps in the body of knowledge within the Department and externally.

INTRODUCTION

Since the last “final” report was done in April 1999, this present report, although ostensibly an annual report for 2016, will fill in some of the occurrences and activities since the last final report in 1999. It will especially cover the NJDOT Research Library’s three relocations between 2000 and 2015 and their effects on library services and operations.

The Research Library completed its 19th year of operation since reopening in February 1998. In the intervening years, the Library moved a total of three times, either due to organizational changes at NJDOT (in Spring 2000), or due to space considerations of other NJDOT units (in 2011 and 2015), not primarily of the Research Library.

When the Research unit (at that point a division) moved organizationally from the Capital Program Management (CPM) side of the organization to the Planning side in early 2000, it moved physically from the Engineering & Operations (E&O) Building to the Main Office Building (MOB) 3rd floor. No longer responsible for the Research Library, CPM subsequently banished the Library from the E&O 5th floor to follow Research and, with the collection measured to the linear inch, the library staff and contents were inserted into a tight fit surrounded by Research in a wing of the MOB. Not too long after that, Research moved to different floor in the MOB, leaving the Library surrounded by the Division of Local Aid.

In 2011, Local Aid’s need for expansion to accommodate extra staff forced the library off the MOB 3rd floor. J. Debby Hatzisavvas, the director of Support Services, which includes Facilities, recognized the importance of the library being centrally located. She would have moved the Library to the E&O 1st floor at that time; however, just then, the other main building in the complex, the Finance & Administration (F&A) Building, had to close for remediation, and IT staff were temporarily housed in “our” spot. So the Research Library went for a multi-year hiatus to the E&O 5th floor, where we had actually resided from 1998-2000. After the F&A remediation and IT’s return to that building, we finally moved to the space we’d been promised four years before. This last move to the Engineering & Operations Building 1st floor in March of 2015 has placed the Research Library in its best location to date, in terms of access by NJDOT staff/customers and of space for the collection.

Almost immediately after moving to its current location in the E&O Building on the 1st floor, the assistant commissioner of Operations, seeking to preserve additional space for his own staff, sought assistance from the Chief Financial Officer (CFO) to have the library removed to a remote building unattached to the main complex, or eliminated. The assistant commissioner of Capital Investment, Planning, & Grants Administration, to whom the Research Library reports (by way of the Division of Statewide Planning and its Bureau of Research), asked the Library staff for supporting documentation to show why the Library should remain where it had only just landed. We provided statistics showing library usage by the staffs of the different major divisions, including the staffs of the assistant commissioner of Operations and the CFO whose domain comprises Budget, Accounting & Auditing, Procurement, and Information Technology (IT). Apparently this information sufficed, at least for the time being, as we remain here now.

Just as the Cafeteria and the Credit Union are centrally located within the main complex, so it makes sense for the Research Library to provide the same type of convenience to its customers. Communication works both ways – library staff learn from interactions with the Department staff surrounding them as well. As our deep dive into request statistics showed, location does affect usage and services.

SUMMARY OF THE WORK PERFORMED

To successfully accomplish the objectives of operating and improving the Research Library as a major resource for transportation knowledge sharing and technology transfer, the librarians performed the following tasks:

- ◆ Provided library reference and referral services to government employees, transportation and other professionals, and the general public, by:
 - Answering inquiries for information.
 - Making referrals to subject matter experts or other sources.
 - Performing literature searches and providing records.
 - Identifying, locating and providing documents, whether in print or digital format.
 - Lending materials from our or the NJ State Library's collection, or through interlibrary loan from other libraries.
- ◆ Maintained and enhanced the collection by selecting, acquiring, processing, organizing, storing and maintaining library materials for use by NJDOT staff and others, through:
 - Purchasing new materials at the request of NJDOT staff and by librarian's discretion.
 - Processing new acquisitions and donated items onsite or by sending to the NJ State Library for original cataloging.
 - Organizing and maintaining the collection and subcollections, especially challenging after moves to new locations.
- ◆ Promoted staff development and a positive workplace by:
 - Aiding staff with career development efforts, obtaining and lending civil service career examination study materials and professional certification exam study materials.
 - Participating in the NJDOT Toastmasters Club.
 - Celebrating NJDOT's diversity as part of the September Project, which grew out of the events on September 11, 2001 and seeks to promote cultural understanding and concepts of freedom and justice (Appendix G).
- ◆ Provided technology transfer by:
 - Sending notifications of upcoming webinars notices to relevant units, and proactively forwarding links to journal articles, newsletters and research reports or other documents.
 - Adding new materials received into a Shared Resources Catalog (database of holdings), editing entries, and generating quarterly reports (Appendix D).
 - Sending the quarterly lists of new materials to the Webmaster for posting on the NJDOT intranet and external internet sites.
- ◆ Marketed the library and promoted services to current and potential customers, by:
 - Creating and disseminating a trifold brochure (Appendix A);
 - Holding an open house to increase awareness of the library and its new location (Appendix E).
 - Providing training on Research Library resources and services (Appendix F).
 - Coordinating and promoting training on vendor-supplied resources (Appendix J).
 - Adding and updating content on the Research Library website in coordination with IT and Communications.

- ◆ Improved communication within the Department among NJDOT staff by:
 - Initiating creation of the *NJDOT Online Directory* of current NJDOT employees, working with IT and Human Resources to build a resource on the intranet which combined a prior separate email directory, print telephone directory, and the organization charts.
 - Referring staff to other NJDOT units and to other researchers outside of NJDOT.
- ◆ Collaborated with internal and external groups for promotion of knowledge and resource sharing, by:
 - Looking for opportunities to work with other internal and external partners on projects of mutual interest and/or benefit.
 - Participating in transportation library groups such as the Eastern Transportation Knowledge Network (ETKN), the TRB LIST Committee, the Transportation Library Pooled Funds, and other technical committees.
- ◆ Kept NJDOT and the State Library informed of progress through:
 - Monthly narrative reports detailing critical issues, new initiatives, significant accomplishments, and classes/meetings (Appendix B).
 - A spreadsheet updated monthly for State Library-required statistics for “patron contacts” and other parameters (Appendix C).
 - A spreadsheet updated monthly showing requests received as the unit of analysis – how many, from whom (by affiliation), method of contact, and type of product offered, whether a verbal or written reply, document, loan, photocopy, or printout (Appendix C).
- ◆ Enhanced library staff knowledge and skills through attendance at presentations, webinars, and conferences.

Output

Requests for Information and/or Materials Fulfilled

In calendar year 2016, the first full year in its new location in the Engineering & Operations Building 1st floor, NJDOT Research Library staff responded to a total of 2,330 requests from NJDOT staff, other New Jersey requestors, and out-of-state requestors. This total represents an all-time high for requests received in a calendar year for the past ten years as shown in Figure 1.

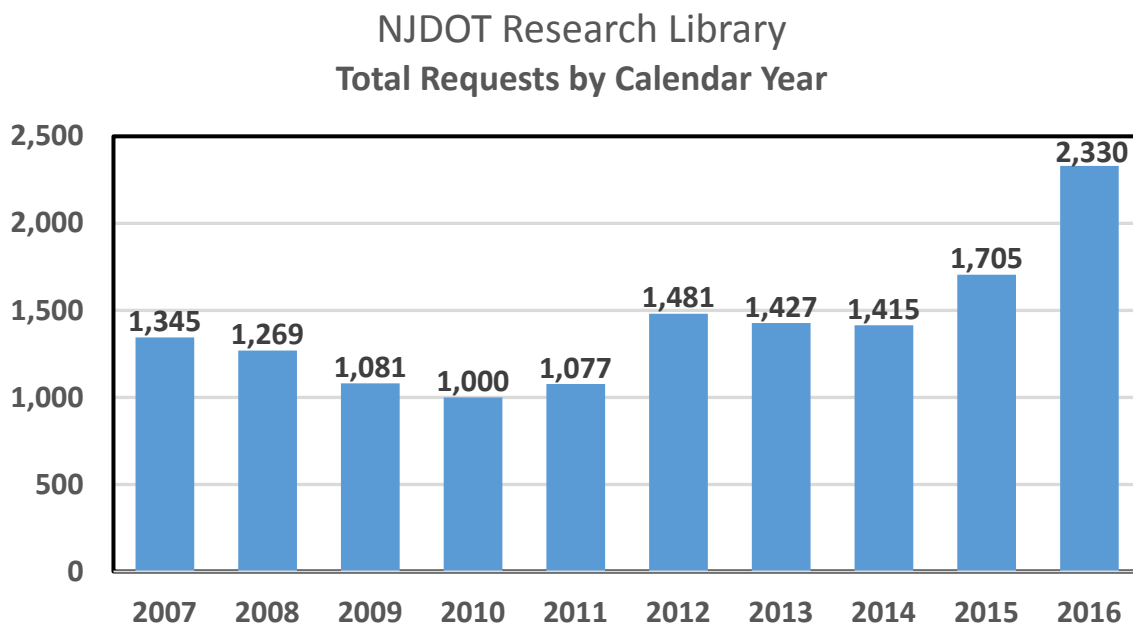


Figure 1. Annual number of requests received per calendar year 2007-2016

By way of a snapshot of where requests originate in relation to each other, whether within NJDOT, from elsewhere within New Jersey or from outside the state, using the three years of 2008, 2012, and 2016, all non-moving years at different locations, for illustration, the following distributions can be seen in Figure 2:

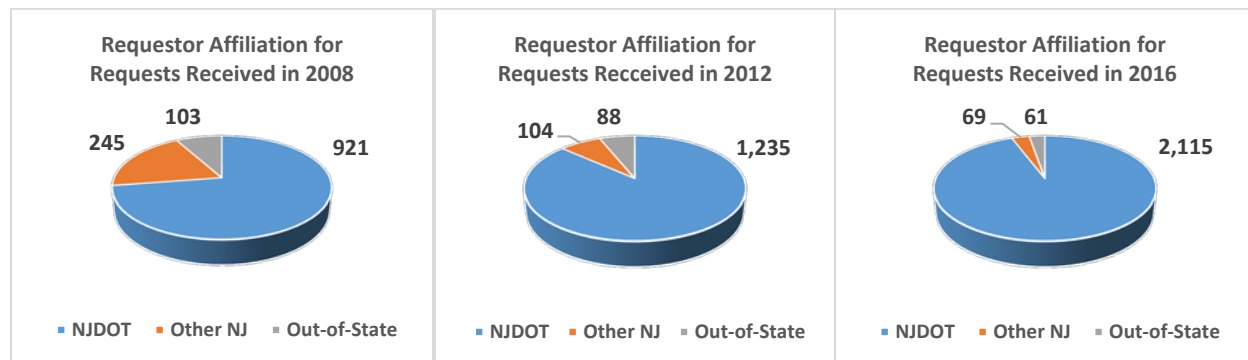


Figure 2. Relative comparison of Research Library requests received by Requestor Affiliation, 2008, 2012, and 2016

As the above figure illustrates, the total number of requests received from NJDOT staff increased substantially and proportionally, while external requests, already fewer than internal requests, declined slightly.

The Main Office Building (MOB), where the library resided in 2008, holds the staffs of the Commissioner's Office (COM'R), Administration (ADM), Government & Community Relations (G&CR), Planning (PLNG), and Transportation Systems Management (TSM). The Engineering & Operations (E&O) Building, houses the staffs of Capital Program Management (CPM) and Operations (OPNS), while the Finance & Administration (F&A) Building comprises the subdivisions reporting to the Chief Financial Officer (CFO). Requests from staff in NJDOT's regional offices were counted as received from the division of which they are a part. A breakdown of the origin of requests from NJDOT major divisions (by assistant commissioner) for these same three years/locations shows the following in Figure 3:

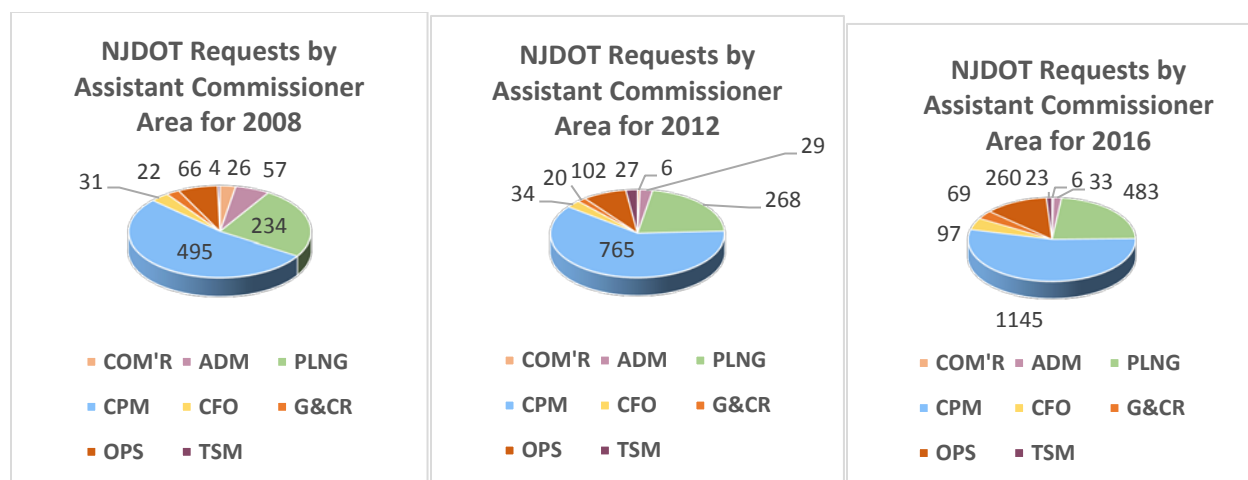


Figure 3. Relative comparison of NJDOT library requests by assistant commissioner divisions for 2008 in MOB, 2012 on E&O 5th floor, and 2016 on E&O 1st floor.

Another way of viewing this data is to see the effect of the library's location on the relative number of requests for each of the three main Headquarters buildings and their respective assistant commissioner divisions. As mentioned previously, the library was located in the MOB in 2008. During 2012, it was situated on the E&O 5th floor with Bridge Engineering & Infrastructure Management, and in 2016 was on the E&O 1st floor with Operations staff, where it still resides. Looking at the request data through this lens of point of service provision vis-à-vis customer locations, Figure 4 shows more readily how the library's location affects customer utilization:

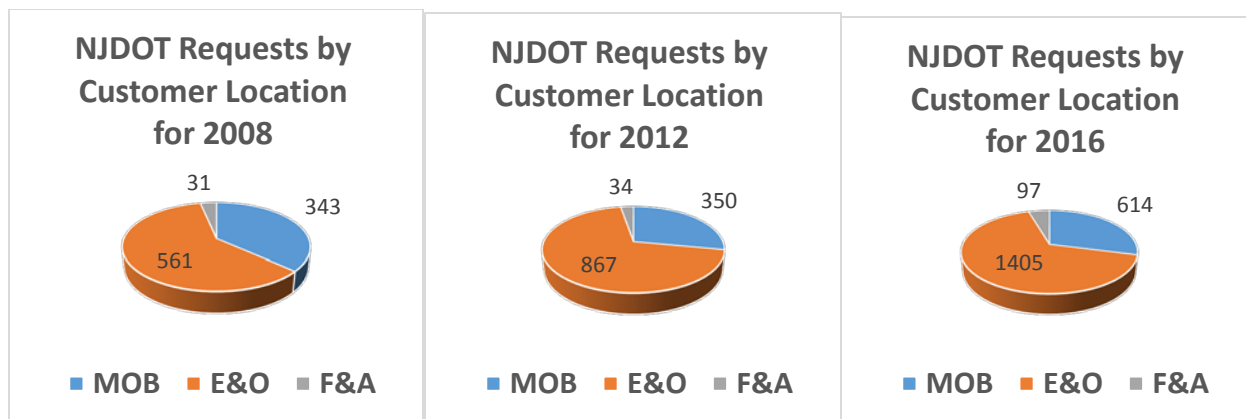


Figure 4. Relative comparison of NJDOT library requests by building locations of assistant commissioner divisions for 2008, 2012, and 2016 when library was in MOB, E&O 5th floor, and E&O 1st floor respectively.

While requests originating from staff in E&O have consistently outnumbered those originating from staff in MOB or F&A, it is evident that use by staff in E&O has grown with the library's location there, although in 2016, requests increased from staff from all three buildings. People are more likely to be aware of and use the library when it is in close proximity to their work area, or at least easily accessible. The most recent move to the 1st floor of the E&O Building, while slightly inconveniencing our most prolific Bridge customers on the 5th floor, has enabled the staffs from the other buildings, MOB and F&A, to stop in for inquiries or item pick-ups without the inconvenience and time of getting on an elevator or climbing five flights of stairs.

Although the three buildings are attached, there exists a psychological barrier between them such that oftentimes, staff become less inclined to make a trip. It is also apparent that having a presence reminds nearby staff of our existence; conversely, out-of-sight can spell out-of-mind (as opposed to "absence makes the heart grow fonder," which may also apply). Sometimes the librarian's physical presence around the campus is enough to remind people that they need something from the library, so a number of requests are received in the course of walking around.

We receive a substantial number of requests via email; however, the bulk arrive in person, and relatively few come in via telephone. Fax and US mail have fallen away in recent years as methods of requestor contact. The breakdown by which requests have been received by the Research Library for each of the three years under examination can be seen in Figure 5:

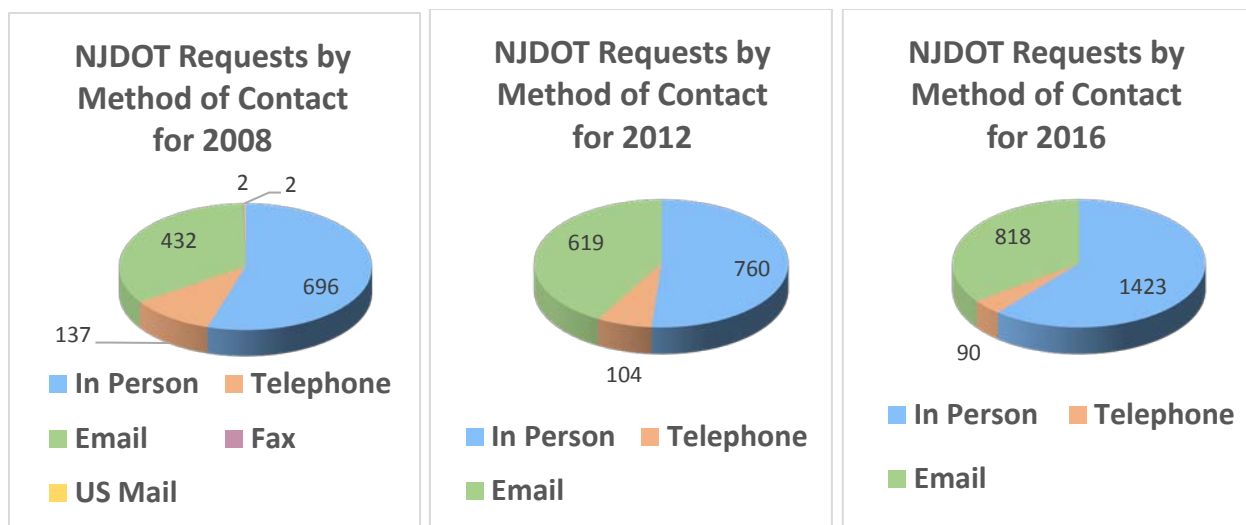


Figure 5. Relative comparison of NJDOT library requests by method of contact for 2008, 2012, and 2016 when library was in MOB, E&O 5th floor, and E&O 1st floor respectively.

As evident from the above figure, requests received in person and by email increased between these three years, and telephone requests decreased. While there were two requests each by fax and US mail, 2012 and 2016 saw none received by these methods. It is noteworthy that, the number of in person requests only slightly increased between the library's 2008 location in MOB and 2012 location on the E&O 5th floor. With our 2015 move to the E&O 1st floor, however, in person requests in 2016 more than doubled what they had been in the MOB location, and was almost double the 2012 MOB 1st floor number. This supports the observation that location and convenience make a difference in library activity.

For a breakdown of the form of the services provided for 2016, see Appendix C: Annual Statistics, NJDOT Research Library Statistics for CY 2016 - Reporting to NJDOT by requests, columns for "Service Provided."

Purchasing/Collection Development

Research Library staff purchases materials for general library use and on demand, especially civil service, PE, FE, and other licensing exam materials. With NJDOT as a sponsor, the Research Library receives reports from the Transportation Research Board and its cooperative research programs, and from AASHTO. Many of these still arrive in print format, although more and more are digital. The Federal Highway Administration and other transportation organizations and consortia still send some of their reports in print format, sometimes with accompanying CD-ROMs or DVDs.

Historically, the Department, like all state DOTs, has received 10 print copies of all AASHTO publications. In order to keep better account of the whereabouts of these copies, and to maintain at least one copy centrally, the Research Library has worked with

the Mailroom, the Correspondence unit, and the Commissioner's Office (the official addressee) to ensure that the Research Library receives the ten copies, keeps at least one onsite, and distributes the rest to the divisions most in need of them for their business use.

AASHTO has begun to distribute some of their publications as PDFs or web-based documents; increasing, we download the AASHTO digital publications and, like the 10 print copies traditionally received, archive them, and distribute them with download instructions to appropriate units throughout the Department.

State DOT research reports and university research reports arrive in mostly digital format. TRID, the database supplied by TRB, often has links to the full text of the reports indexed.

We subscribe to only two paid journal subscriptions at this time; however, many industry journals, magazines, and newsletters arrive digitally or in print at no charge. Additionally, NJDOT staff have access to myriad journal titles via the NJ State Library's e-journal collection chiefly through vendors EBSCO, Gale, ProQuest, and H.W. Wilson.

Collection Maintenance

Adding new materials to the collection involves cataloging in NJ State Library's integrated library system (catalog) and/or entry of metadata into the Shared Resources Catalog database available through the intranet. We use this database to generate the quarterly report of *Selected Recent Acquisitions*, the need for which drove the database's development. Collection maintenance also involves determining collection organization, categorization, and classification, and physically adding, removing, and shifting materials on the shelves. Since our third move to the present location, this is still a work in progress; indeed, collection maintenance is an ongoing process, as new materials arrive, and some need to take their leave.

Other Services

- Posting flyers around the complex to announce NJ State Library events, such as author talks or classes.
- Receiving and processing donated materials from other units, and providing storage or disposal service.
- Providing extra or unneeded materials to NJDOT staff, the NJ State Library, external transportation libraries, and other recipients including DAGs.
- Creating custom bookplates and inserting, at donors' request, into donated items retained by the library.

Marketing

Marketing/current awareness methods have taken many forms including:

- NJDOT Research Library brochure – latest edition is March 2016 (see Appendix A). We provide copies to Human Resources for inclusion in the orientation packets for new employees.

- Quarterly publication of the list of new materials, *Selected Recent Acquisitions* (see Appendix D).
- Web presence on internet and intranet NJDOT webpages – currently under revision.
- Table at the Annual NJDOT Research Showcase with brochures and giveaways.
- Open House held in October 2015 to publicize our current location (see flyer in Appendix E).
- Formal training – when requested (see PowerPoint presentation in Appendix F), and informal, or one-on-one as needed, or in the course of answering inquiries.
- *Many Places - One Planet* interactive poster created as part of the September Project in 2009 with the assistance of the GIS unit (see Appendix G).
- Collaboration with Administration for Women's History Month including arrangement, coordination, and marketing of a guest presentation by Carol Simon Levin on Emily Roebling (see Appendix H).
- Selected dissemination of information – sending out articles, reports, and notifications of webinars to recipients by organizational unit; audience type, such as Professional Engineers (PEs) or Planners; or staff function, such as Directors and Managers.

Collaboration and Networking

Networking with peers, colleagues, and customers, both internal and external, provides vital support as well as added responsibilities. Within NJDOT, the library staff cooperates with other units on projects of mutual interest, and also connects people between different units or with others. Projects undertaken with for, or with the assistance of, other units include:

- ◆ For Human Resources:
 - Women's History Month – Providing speaker and promotional flyer (Appendix H).
 - Engineering Week – purchase of DVDs.
- ◆ With Civil Rights and the Employee Memorial Committee with assistance from GIS:
 - *Many Places – One Planet* Interactive Poster, Appendix G.
- ◆ With IT:
 - *NJDOT Online Directory*.
 - Shared Resources Catalog.
- ◆ We have also collaborated with other state entities, including the NJ Division of Law & Public Safety Human Trafficking Task Force for whom we coordinated their presentation at NJDOT and created a promotional flyer (Appendix I).

Some external entities with which staff are affiliated include:

- Eastern Transportation Knowledge Network (ETKN).
- TRB Standing Committee on Library and Information Science for Transportation (ABG40) (Friend).
- AASHTO Research Advisory Committee Coordination & Collaboration Task Force Working Group (RAC CCTF WG) (Friend).

- Transportation Research Thesaurus (TRT) Subcommittee (of LIST).
- Library Connectivity & Development Pooled Fund (closed), which has produced some [LibGuides](#), or subject pathfinders as well as other products.
- Special Libraries Association (SLA) Transportation Division (Treasurer).
- New Jersey Library Association (NJLA).
- Documents Association of New Jersey (DANJ).
- Transportation Librarians Roundtable.

Staff also monitors and participates in the discussion list, TRANLIB, sponsored by the Transportation Division of SLA, and monitors other organizations' lists such as the American Society for Engineering Education's ELDNET and Association for Information and Image Management (AIIM) as well.

Reporting

The Research Library reports monthly to the NJ State Library and to the NJDOT Bureau of Research with a narrative report on critical issues, new initiatives, significant accomplishments, and meetings or classes attended. These monthly narratives are accompanied by two spreadsheets, one keeping monthly track of statistics for reporting to the NJ State Library, and the other enumerating the requests received each month by parameters of requestor affiliation, method of contact, type of service requested (general reference question or literature search, versus a document), and form of the service provided, whether a verbal/memo reply, document, loan, printout, or photocopy. The narrative reports for each month follow in Appendix B, and the spreadsheets for calendar year 2016 appear in Appendix C.

The Research Library reports its new acquisitions on a quarterly basis with its publication, *Selected Recent Acquisitions*. The four editions for 2016 appear in Appendix D. In addition, we provide assistance in preparation of the reports/thumbnails for the State Planning and Research (SPR) Program for FHWA when requested by the Bureau of Research.

Staff Training

Library staff attend professional development opportunities whenever possible and feasible. Relevant training opportunities include attendance at:

- Webinars from many sources, library- or transportation-related.
- Conferences, library- or transportation-related, including the Special Libraries Association Annual Conference and/or the TRB Annual Meeting.
- Brown-bag lunchtime presentations (usually on technical topics).
- Toastmasters – NJDOT Toastmasters Club provides public speaking, communication, and leadership training.
- Other, as required by Human Resources at Thomas Edison State University or NJDOT.

Challenges

As New Jersey State Library employees contracted through Thomas Edison State University to provide library and information services full time at NJDOT although not technically NJDOT employees, we run into some challenges, among them:

Space

Historically, the library and its staff have been located in less-than-desirable areas, and with inadequate space for the collection. This last move to the 1st floor of the E&O Building has afforded the most generous space so far, and the most convenient for serving the majority of NJDOT staff. Even after three moves, however, the location remains precarious, as the assistant commissioner in charge of the surrounding units exerts pressure for our ouster to a remote location, or even the elimination of the library. We have had to demonstrate use by NJDOT divisions, including by staff of this very same assistant commissioner. Library use does increase, however, for whatever NJDOT units the library moves near, as awareness of and convenience to library services increase. As much of an improvement our current location provides, we still face the issue of:

Noise

Convenience has its price - since we are on the first floor, on a main corridor, bordering the exits and the rest rooms, people pass by frequently, often congregating nearby, sometimes right next to us, not realizing that the 5-ft 6-in partitions and file cabinets block views but not sound. Our accessibility also affords people opportunities to greet us or stop to chat, not always mindful that their “visit” at some point becomes an interruption. Irregular usage of a large shredder in a nearby unit, and an intermittent booming sound from the HVAC system that people mistake for thunder, also add to the distraction.

Time

With two full-time staff, some important projects get put on a back burner. Many of the donations of materials received remain in boxes since they are time-consuming to go through and process. The website desperately needs updating. The collection needs weeding and shifting. Subcollections such as photographs and VHS tapes need attention for reformatting and/or preservation. With energies focused on day-to-day inquiries and processing of new materials, these projects remain on hold or proceed at a snail’s pace.

Some state DOTs only have one librarian, so we can be seen as lucky; some have none at all, and their libraries have closed. The highest functioning state DOT libraries, however, such as Minnesota, Washington State, and Virginia, have several librarians and support staff. With additional staff, we could accomplish more and faster.

Funding

An annual allocation of \$2,500 for materials affords only a few items for purchase; however, as previously mentioned, the transportation sector provides access to many “free” materials from entities such as TRB and AASHTO, for which NJDOT and the other

states are sponsors. We also get free materials from US DOT, the states, and other organizations, sometimes in print or, more often now, electronically.

This budget limits the number and type of journal subscriptions, and precludes library funding of access to any databases. Luckily, the NJ State Library and NJDOT itself provide access to many. Otherwise, if funding were not an issue, we might subscribe to some of the Elsevier journals or provide access to [Engineering Village](#). We briefly had a subscription to [ASCE Library](#), first funded by the Transportation Library Connectivity and Development Pooled Fund and then for one year, by our own Bureau of Research. No other units were willing to pick it up, so the subscription lapsed. People can still browse the ACSE journals tables of contents and abstracts, and we obtain the full text of individual articles and papers as requested.

Perceptions / Awareness

In spite of marketing efforts, still many people here at NJDOT are unaware of the library's presence or available services. Another challenge is the growing nature of digital collections, which can be difficult to perceive and access versus owning a print edition. In other words, the library offers a lot more services and has access to a lot more materials than what people see in front of them when they stop by and look around. This phenomenon is certainly not unique to the NJDOT Research Library.

Ironically, but perhaps not surprisingly, since the NJDOT employee *Online Directory* runs based on a civil service personnel database, the Personnel Management Information System (PMIS), Laurie and I, as State Library employees, are not included in the *Online Directory*. This omission adds to the challenge of people finding us, and makes marketing all that much more vital.

Technical Challenges

Although newly received materials tend more and more to be digital, a lot of older items exist in print form only, and we do not have the staff time, funding, or training for digitization projects. Another challenge with the onslaught of digital materials is the difficulty in keeping up with them - their discovery, dissemination, archiving and/or processing, etc. Even keeping track of NJDOT-produced materials is challenging in that the units producing publications don't always provide notifications or copies.

In regard to training, as NJ State library employees, we are not included in NJDOT-listed courses in the state Human Resources Development Institute (HRDI) Learning Management System (LMS), so have to get special access when needed.

Websense, the security software, blocks access to many work-related sites, and although Form IT-16s ("Request for Network Policy Exemption") have been submitted, blockage remains for entire categories of websites, such as "Educational Videos."

Then also are the vagaries of the modern age – software and equipment malfunctions, lack of supplies, printer problems, etc. While these types of problems plague all staff and probably everywhere, they do hamper productivity when they occur.

CONCLUSIONS AND RECOMMENDATIONS

The numbers and statistics, while potentially illuminating, don't tell the positive impacts the Research Library has on NJDOT staff, and by extension, the Department. Identifying, locating, and lending civil service examination study materials, we've helped people get promotions; by purchasing and lending industry study guides and standards materials, we've assisted people with preparing for and passing their professional licensure exams; and by notifying license holders of continuing education opportunities, mostly at no cost, we've provided opportunities to earn professional development hours toward maintaining the licenses. On the organizational level, once Research Library staff became aware of a lawsuit pending against the Department for damage to a house erected over utilities, we were able to supply information and evidence from 1928 for the DAG to win the lawsuit.

Given that the library has moved twice in the past six years (three times since reopening in 1998), the physical collection has suffered somewhat in regard to order, both because of the moves themselves, and also the staff time needed to accomplish these moves, even with the help of NJDOT staff (2011) and an outside moving company (2015). The disruptions caused by moving, even if to a better space, have lasting effects.

It is both a positive and a curse that retiring or downsizing NJDOT staff see the library as a repository for their unwanted materials. Indeed, the collection has to some degree been built on the largesse of staff downsizing or jettisoning their personal accumulations. We encourage donations because then we can at least ensure that important or useful materials are retained. The Department has a history of not necessarily valuing its own documents and many times, we have pulled items from the trash. In the mid-1980's, when the original Department library was dismantled, the Cultural Resources unit rescued the Department's annual reports from a dumpster, and to this day keeps them locked up in a building away from the main offices.

Our policy is that we will accept any donations with no promise of keeping them. If we cannot use something, we try to find another library that might want it, or make it available to any takers. By establishing the Research Library as the place to bring documents and materials, we can hopefully insure that nothing of value gets lost – we just then have a lot of boxes of materials to plow through.

Our affiliation with the NJ State Library affords us not only technical support in terms of acquisitions, cataloging, and reference assistance, it also provides access to numerous databases which we could not afford with our limited budget. Likewise, since the State Library has been collecting books and materials since the 1700's, they have a very rich and deep collection upon which we often depend.

Like any unit with a small staff, only so much can get done in limited time. If the Department would like either expanded services or current services to proceed at a quicker pace, hiring additional staff would certainly support that.

Even though it seems to us that we are constantly marketing and making contacts, there are always people who are unaware of the library's existence. While it is true that not

everyone requires the library's services, still it would be good to have a better web presence on both the intranet and internet. We are working on this, and then at least people will know we are here if and when they need library services.

Just as the Department for many years did not recognize the value of a consolidated Employee Directory, so it has yet to embrace the idea of automated organizational charts. While the ideas for tools such as these sometimes begin with the needs of the Research Library staff, they have much broader applications for use by almost everyone in the Department. It took several years and a chance encounter with the Commissioner at the time, Jack Lettiere, for the Library to get cooperation from IT and HR to collaborate on the *NJDOT Online Directory*. While this IT application gets a lot of use to the point that people probably can't imagine what the Department was like before its appearance, some issues need addressing, including not being updated timely, not indicating people's positions relative to each other within their unit (titles are available only by clicking on each employee ID individually), and allowing people to too easily opt out of having their pictures included. While this last feature was an unforeseen added enhancement, the effect it had when the Directory first appeared with the pictures was quite extraordinary - for the first time, people could actually see who others were who they only knew by name, or finally had a name to go with a face they saw daily and didn't know. It had the effect, as much as other events that have taken place, of actually making NJDOT seem more like a family.

The next Department-wide tool needed, for use by library staff and others, would be organization charts that continue on past the level of manager, where the official organization charts now end. The divisions each maintain their own charts; however, they don't make them available to the rest of the Department. Enhanced organization charts, tied in with the current or updated and revamped online employee Directory, would provide much needed information about the staff *for* the staff. It should live on the intranet, where the Online Directory currently does. As mentioned, the usefulness of the Directory would improve with inclusion of other longterm, onsite non-DOT state workers, such the Research Library staff, and probably other consultants as well.

NJDOT Library staff must continue to work with other units of the Department not only in filling their stated information needs, but in anticipating these needs, recognizing gaps in the knowledge structure, and engaging with units to build knowledge sharing tools and solutions for use throughout the organization.

In conclusion, what has become evident is that location matters, for awareness and convenience. The library needs to be as accessible to Department staff for information and knowledge sharing as the cafeteria is for food or the credit union for financial services. Also, by close proximity, Library staff can hear about others' information needs and the broader issues the Department faces. In spite of technological advances and the ubiquitous digital documents and email, a lot of information exchange is often serendipitous and occurs during in-person contact. People still often prefer to conduct their inquiries face-to-face, and this remains a most efficient means of accurate communication.

REFERENCES AND RESOURCES

- Committee for a Future Strategy for Transportation Information Management. *Transportation Knowledge Networks: A Management Strategy for the 21st Century*. Special Report 284. Washington, DC: Transportation Research Board, 2006.
- De Bono, Caspar and Kate Arnold. *The Evolving Value of Information Management and the Five Essential Attributes of the Modern Information Professional*. [s.l.]: Financial Times in conjunction with SLA, November 2013.
- Dresley, S.C. and A. Lacombe. *Value of Information and Information Services*. FHWA-SA-99-038. Cambridge, MA: Volpe National Transportation Systems Center; Washington, DC: Federal Highway Administration, October 1998.
- Million, A.J, Sheila M. Hatchell, and Roberto Sarmiento. *Proving Your Library's Value: A Toolkit for Transportation Librarians*. Jefferson City, MO: Transportation Library Connectivity and Development Pooled Find Study, TPF-6(237), 2012.
- Oklahoma Department of Transportation, Video Production Branch. *Transportation Knowledge Network*. Oklahoma City, OK: The Department, 2012. (3:54 minute video explaining the TKNs).
- Paszamant, Carol. *Reestablishment of Research Library Operations at the New Jersey Department of Transportation*. FHWA/NJ-99-004-TESC-1. Trenton, NJ: NJDOT, April 1999.
- Sacco, Maggie and Christi Powers. *Transportation Librarian's Toolkit*. Madison, WI: Transportation Library Connectivity Pooled Fund #TPF-5(105), December 2007.
- Spy Pond Partners, LLC. *A Guide to Agency-Wide Knowledge Management for State Departments of Transportation*. NCHRP Report 813. Washington, DC: Transportation Research Board, 2015.
- Spy Pond Partners, LLC; University of Minnesota Center for Transportation Studies; and Sandy Tucker. *Implementing Transportation Knowledge Networks*. NCHRP Report 643. Washington, DC: Transportation Research Board, 2009.
- Zmud, Johanna P, et al. *Communication Matters: Communicating the Value of Transportation Research Guidebook*. NCHRP Report 610. Washington, DC: Transportation Research Board, 2009.

APPENDIX A
RESEARCH LIBRARY BROCHURE
(trifold)

Policies

The Research Librarian reserves the right to make recommendations and set policies as needed. Much of the collection, except for reference items, is available for loan to NJ State government staff for a period of 4-6 weeks with possible renewal. Examination preparation materials have up to a 2-week loan period. Extended loans are subject to recall. Materials received on loan from other libraries must be returned on time to ensure continuation of NJDOT's interlibrary borrowing privileges.

The Library is open to the general public by appointment only. People from outside of NJ State government who wish to borrow materials can initiate interlibrary loan requests through their local library, be it public, academic, or institutional.

Anyone may recommend materials for purchase and consideration will be given. The Library will accept donated items, with no obligation as to their retention.

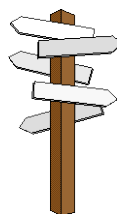


NJDOT Bureau of Research

General Information

New Jersey Department of Transportation
Research Library - E&O 1st Floor
1035 Parkway Avenue, PO Box 600
Trenton, NJ 08625-0600
Voice: 609-530-5289
Fax: call for fax
E-mail: library@dot.nj.gov
NJDOT Research Library website:
<http://www.nj.gov/transportation/refdata/library>

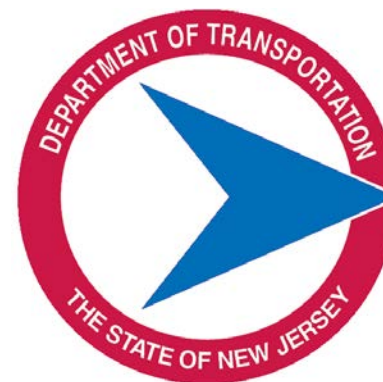
New Jersey State Library
185 West State Street, PO Box 520
Trenton, NJ 08625-0520
General phone number:
609-278-2640
Circulation: x104
Law Library: x102
Reference: x103
E-mail: refdesk@njstatelib.org
NJSL website:
<http://www.njstatelib.org>



ResLib 3/16

The State of New Jersey

DEPARTMENT OF TRANSPORTATION



RESEARCH LIBRARY

a branch of the
NJ State Library
An affiliate of Thomas Edison State University

The Library's Collection

The Research Library collection spans a myriad of subjects including, and not limited to, engineering, planning and management from such sources as:

- **Transportation Research Board**, (TRB) including the associated cooperative research programs such as the National Cooperative Highway Research Program (NCHRP);
- **American Association of State Highway and Transportation Officials** (AASHTO);
- **US Department of Transportation** (USDOT) and its subdivisions, especially the Federal Highway Administration (FHWA);
- **NJ Department of Transportation** itself, particularly the Bureau of Research;
- **Other national, state, and international agencies and organizations.**

Comprising mainly technical reports, the collection also has monographs, periodicals, and non-print formats such as CD-ROMs, DVDs and videocassettes. Increasingly, materials are available digitally.

The cataloged portions of the collection are accessible via the State Library's online catalog at <http://www.njstatelib.org>.

NJDOT staff can view more of the library's contents via the **intranet** by logging on in **Client Applications**, then choosing **Learning Center**, and then **Shared Resources Catalog**.

Access Your Library

Located on the 1st floor of the Engineering & Operations Building, NJDOT Research Library staff are available Monday-Friday, 9 AM - 5 PM. Research librarian, Carol Paszamant (Carol.Paszamant@dot.nj.gov), or associate librarian, Laurie Strow, may be reached via:

Telephone: 609-530-5289

Fax: call for fax

E-mail: library@dot.nj.gov

Library services are offered in full to NJ State employees. The collection is accessible to the public by appointment.

Services Provided

- Reference services;
- Literature searches;
- Lending of Research Library materials or in-house use for reference items;
- Access to documents via purchase or interlibrary loan;
- Organization and maintenance of NJDOT's research collection;
- Distribution and routing of materials;
- Compilation of ***Selected Recent Acquisitions***, a quarterly listing of newly received items by subject;
- Notification of webinars offering professional certification credits.

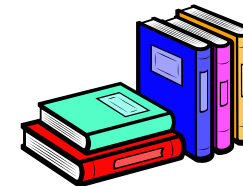
Past, Present, Future

The NJDOT Research Library first opened in 1962 as part of the Bureau of Research, of which it is still a part. Since 1998, it has been funded by NJDOT as a State Planning and Research (SPR) project.

The Library operates as a branch of the New Jersey State Library under an agreement between NJDOT and Thomas Edison State University with which the State Library is affiliated. Research Library staff, officially NJ State Library employees, are onsite full-time at NJDOT.

Current ongoing projects include:

- The cataloging of the collection for improved online accessibility and circulation control;
- Updating and maintenance of the Research Library website;
- Identification and organization of donated photographs and other materials;
- The NJDOT Staff / Research Library Initiative, a program to share resources throughout the Department.



APPENDIX B
MONTHLY RESEARCH LIBRARY REPORTS

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
January 2016
7510 - Research Library Operations

Critical Issue

- A “neighbor” in Operations advised us that two people were behind library staff desks looking at (and possibly about to take without checking out) study guide materials. We may have to ask Facilities for locking cabinets.

New Initiative

- Created signage to alert visitors to stay out of Research Library staff areas, including behind desks. If this fails to act as a deterrent, we’ll have to go the locking-cabinet route as above.

Significant Accomplishments

- Assisted Correspondence Unit with an inquiry for tunnel images.
- Sent an article from *GovTech Today* on “urbanophobia” to Statewide Planning.
- Forwarded a *Streetsblog USA* blog on bicycle advocacy to Statewide Planning.
- Obtained print copy of latest *CDL Manual* from Motor Vehicle Commission for Statewide Planning.
- Forwarded articles from *TransCentral* e-newsletter on bicycle/pedestrian issues to Statewide Planning.
- Sent an article on performance-based design from *ITE Journal* to Statewide Planning.
- Discussed with Research the requirements for research reports to be split into separate volumes.
- Forwarded a Michigan DOT document on pooled fund success stories to Research.
- Sent latest *Texas Transportation Researcher* to Research.
- Discussed with Research what version of the technical documentation page (FHWA Form 1700) to use.
- Assisted Local Aid with question about editions of the *Capital Program* back to 1970.
- Provided print copy of an NJDOT research report on paratransit facilities to Transportation Data & Safety.
- Provided online access to the NJDOT 2007 *Standard Specifications* to Data & Safety.
- Sent notice of articles from the December *ITE Journal* to Planners, ITS, Traffic Engineering, Data & Safety, CPM, and others.
- Sent articles on drones and construction to Project Management.
- Borrowed a book from Philadelphia University for use by Landscape Architecture.
- Linked Right-of-Way - North staff with person in Design Standards with access to an executed agreement.
- Forwarded Michigan DOT’s *Research Spotlight* on a new bridge design to Structural Design.

- Showed Geotechnical Engineering staff how to access an ASCE journal article via NJ State Library EBSCOhost databases (now that our *ASCE Library* subscription lapsed), and provided PDF of article.
- Lent 1926 and 1941 NJ Highway Department (precursor of NJDOT) *Standard Specifications for Road and Bridge Construction* to Structural Evaluation.
- Discussed access to AASHTO interim revisions with Structural & Railroad Engineering.
- Lent two items from collection to Structural & Railroad Engineering.
- Located design load guidelines from the 1920's up to 1944 for Structural & Railroad Engineering.
- Forwarded an article from the *New York Times* on the Gateway project to Operations.
- Provided two NCHRP Syntheses to Operations.
- Sent notice of Mid-Atlantic Geospatial Transportation Users Group webinar on evacuation planning to Office of Emergency Management (OEM).
- Discussed access to print copy of 2016 *NJ Statewide Transportation Improvement Program (STIP)* for Road & Bridge Engineering & Support.
- Sent link to LTAP courses to PEs for free access to continuing education credits.
- Sent notices of webinars offering continuing education credits to PEs, Planners, Roadway Design, Support Services, and others.
- Responded to a total of 195 requests, 188 (or 96%) of which were from NJDOT staff. The rest were from the Office of Legislative Services (NJ Dept. of Law & Public Safety); a NJ resident; Delaware Valley Regional Planning Commission (DVRPC); Connecticut DOT; Oregon DOT; and an out-of-state resident.
- The 92 reference requests and 103 document requests together resulted in provision of 98 loans, 22 documents, 1 photocopy, 3 printouts, and 71 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended the Transportation Research Board Annual Meeting in Washington DC, and there attended the Library & Information Science Committee meeting.
- Carol attended the NJDOT Planning Roundtable quarterly meeting.

c: Camille Crichton-Sumners

Colleen Dazé

Doris Murphy

Margaret Nizolek

Stefanie Potapa

Amanda Gendek

Paul Thomas

Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
February 2016
7510 - Research Library Operations

Critical Issue

- There has been difficulty with receiving emails from the SLA Transportation Division listserv (Tranlib) since mid-December. NJDOT IT, OIT and SLA IT have been working on it, and it appears to have been resolved, at least temporarily.
- Access to new AASHTO documents continues to be a problem that the Department is not addressing.

New Initiative

- Coordinating meeting room access at TESU for a Statewide Planning Division meeting.
- Per Andy Swords, Carol will be an advisor to the Capital Investment Planning & Grant Administration (CIPGA) Knowledge Building Initiative.
- Have offered to assist Research Bureau with presentation on Bureau functions to rest of CIPGA in September.
- We'll be purchasing some updated PE materials.

Significant Accomplishments

- Conducted literature searches regarding job satisfaction and employee retention for Operations, and provided articles and book loans.
- Located a substantive report with graphs on salary and benefit comparisons of the public versus private sector for Operations.
- Assisted Communications with a reply to FHWA staff person writing an article. Provided the requested date of creation of NJDOT in 1966, and a scanned copy of the NJDOT historical publication with the info.
- Found some historical digitized photos and sent to Communications for NJDOT's 50th Anniversary this year.
- Assisted Communications with a request from the Smithsonian Institution via AASHTO for an old highway sign.
- Sent information on the NJ State Library webinar on the *Pronunciator* database to NJDOT Toastmasters members.
- Forwarded an *ASCE SmartBrief* article on a federal executive order for new earthquake standards to Support Services.
- Assisted Statewide Planning staff with registration procedures for an outside webinar.
- Directed Planning staff to the NJ State Library webpage for lunchtime events and arranged addition to NJSL's mailing list.
- Advised Research on copyright ownership for university-produced project reports.

- Established most appropriate binding supplies for Research to recommend to university partners.
- Obtained materials via interlibrary loan for several students in CPM.
- Sent an article on drones and construction referenced by *Concrete SmartBrief* to Project Management.
- Identified and lent several books on performance evaluation for Project Management.
- Sent information on bagworms to Landscape Architecture & Environmental Solutions.
- Obtained an ASCE conference paper via interlibrary loan for Geotechnical Engineering since access to fulltext via our *ASCE Library* subscription has ended.
- Forwarded product information on Manhole Safety Ramps to New Technologies & Products.
- Lent an AASHTO manual and LRFD specifications to Structural & Railroad Engineering.
- Lent several NCHRP reports to Structural & Railroad Engineering.
- Identified the current NJDOT staff person in jurisdiction for Right-of-Way-North.
- Verified the latest ASHRAE standard for laboratory fume hoods, and provided fulltext of the February 2011 amendment to Region North-Materials for them to update their 2008 procedures.
- Forwarded a *Concrete SmartBrief* article on the molecular structure of concrete to Materials.
- Identified and lent for onsite use the latest NJDOT *Bridge Design Manual* for Region South-Construction.
- Sent notices of webinars offering continuing education credits to PEs, Planners, and others.
- Responded to a total of 235 requests, 219 (or 93%) of which were from NJDOT staff. The rest were from the NJ State Library; NJ State Police; NJ Transit; NJ Dept. of Environmental Protection; a NJ business; Illinois DOT; New York State DOT; Virginia DOT; University of Louisville; and an out-of-state resident.
- The 118 reference requests and 117 document requests together resulted in provision of 102 loans, 41 documents, 7 photocopies, 7 printouts, and 77 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Laurie attended an American Libraries Live webinar, *Introducing RDA*, presented by a panel including James Heneley, managing editor of RDA Toolkit, Gordon Dunsar of the RDA Steering Committee, and Kathy Glennan of the University of Maryland and RDA Steering Committee.
- Carol accessed an archived recording of the TRB webinar, *Using the Updated TRID Interface*, presented by Bill McLeod of TRB.
- Carol attended the Transportation Librarians Roundtable on *Why Things Are the Way They Are: Building on a Survey of State DOT Website Infrastructure* presented by A.J. Million, doctoral candidate at the University of Missouri.
- Carol attended an ALA webinar, *Managing with Data Using ACRLMetrics and PLAMetrics*, presented by Peter Herson of Simmons College, Robert Dugan of the University of West Florida, and Joseph Matthews, a consultant.
- Carol attended an AIIM webinar, *The Next Gen Information Professional*, presented by John Mancini of AIIM and Sue Trombley of Iron Mountain.

- Carol attended a Lucidea webinar, *Future-Proof Your Library: A Conversation with Stephen Abram*.
- Carol attended an SLA webinar, *The Evolving Role of the Info Pro*, presented by Jim Hydock of Outsell.
- Carol attended two ETKN telephone meetings.

c: Camille Crichton-Summers
 Colleen Dazé
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Amanda Gendek
 Paul Thomas
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
March 2016
7510 - Research Library Operations

Critical Issues

- The Tranlib access issue has been resolved, with assistance from NJDOT IT, OIT, and SLA IT.
- Much confusion exists among NJDOT staff, particularly Bridge Engineering & Infrastructure Management, regarding access to AASHTO materials, even when that Division has gotten 9 copies. A Department procedure on the intranet would be helpful.
- Our reporting format may change due to a requirement for quarterly and annual reports to FHWA and NJDOT, while continuing monthly reports to the NJ State Library.

New Initiatives

- Assisting the Communications Office with locating materials for display to celebrate the 50th anniversary of NJDOT as the *NJ Department of Transportation* (as opposed to the State Highway Department).
- Supplying the Department “artist” (in Project Management) with materials and suggestions for a painting for the Department’s 50th anniversary.

Significant Accomplishments

- Determined, through memory and phonecalls, the identities of the creators of NJDOT’s updated and original logos, respectively, for the Department’s 50th anniversary.
- Located and lent a 1969 State Highway map for Communications to display for the NJDOT 50th anniversary.
- Provided Route 37 (current Route 35) construction information from 1928 to Tort Litigation and a Department of Law & Public Safety Deputy Attorney General for defense of NJDOT in a lawsuit regarding an underground pipe failure. Located and sent images from the *1928 Annual Report* housed in Fernwood (by Cultural Resources) and provided access to other documents held here in the Research Library.
- Sent link to a Bureau of Transportation Statistics acronym guide to the Inspector General’s Office.
- Forwarded a *Concrete SmartBrief* article on the “smart vest” to Employee Safety.
- Forwarded Michigan DOT Fast Facts to Planning, Multimodal Services, Research, and Communications.
- Provided information and documents concerning the history of jughandles in New Jersey to Communications and Traffic Engineering.
- Sent tables of contents from multiple issues of *ITE Journal* to Planning, Transportation Systems Management, Data & Safety, Traffic Engineering, and Structural & Railroad Engineering.
- Scanned and sent an *ITE Journal* article to Capital Investment Planning.
- Provided tours to new Planning and Research staff.

- Sent link to the USDOT *Public Access Plan* to Statewide Planning.
- Sent links to National Academies fulltext books on climate change to Statewide Planning.
- Provided info to Planning for online access to a *Transportation Research Record*.
- Showed Environmental Resources staff how to access the Shared Resources Catalog via the intranet.
- With assistance from the NJ State Library Law Section and the NJ Superior Court Appellate Division, provided two NJ Supreme Court briefs to Outdoor Advertising.
- Sent a NJ Attorney General formal opinion to Outdoor Advertising and explained how to access.
- Sent a *New York Times* article on billboards to Outdoor Advertising.
- Provided information on FileNet to Right-of-Way.
- Located and sent errata for an AASHTO publication to Quality Management Services [Laurie].
- Sent old and new NJDOT logo images to Project Management.
- Sent link to a video on self-healing concrete to Structural and Materials staff.
- Provided photocopies of charts and tables from AASHTO publications to Roadway Design [Laurie].
- Forwarded a Michigan DOT *Research Spotlight* on frost-susceptible soils to Geotechnical Engineering.
- Identified, located, and lent a dictionary of scientific and engineering terms to Structural Design.
- Showed an onsite Structural Evaluation consultant how to access ASTM standards [Laurie].
- Lent the NDS Wood Design Package to Structural Evaluation [Laurie].
- Identified, located, and lent an acceptable edition of a Pearson textbook for Structural Evaluation.
- Located and lent multiple editions of the AASHTO *Standard Specifications for Bridge Design* to Structural Evaluation.
- Verified an AASHTO publication citation and located material for loan to Structural & Railroad Engineering [Laurie].
- Provided information on standards suppliers to Structural & Railroad Engineering.
- Identified, located, and lent an AASHTO publication for Structural & Railroad Engineering.
- Explained to Structural & Railroad Engineering the new AASHTO distributions and relevance of NJDOT committee members.
- Sent articles from *Governing* on recruitment to Operations and to Human Resources (NJDOT).
- Located an online edition of *Compliance Officer's Manual* for Civil Rights.
- Scanned and emailed two AASHTO materials specifications for Operations.
- Provided a tour to Operations staff [Laurie].
- Showed Maintenance staff how to access a TRB document using required login.
- Sent notices from TRB, Forester Media, University of South Florida's Center for Urban Transportation Research, and the AASHTO T3 program of free webinars offering continuing education credits to PEs, Planners, Multimodal Services, CPM, HR, and others.
- Lent an engineering manual to NJ Department of Community Affairs.
- Assisted Minnesota DOT with a legal question regarding defense of employees criminally charged for job-related acts.

- Referred an out-of-state inventor to the Port Authority of New York and New Jersey for possible implementation of a pilot project to reduce truck traffic in the port area.
- Selected, purchased, processed, and lent new PE examination study materials [Carol and Laurie].
- Updated our print *Manual on Uniform Traffic Control Devices* (MUTCD) with 9 pages of errata.
- Continued entering data in the Shared Resources Catalog [mostly Laurie] and copy cataloging [Laurie].
- Completed editing of the 2015 3rd quarter *Selected Recent Acquisitions* and asked the NJDOT Webmaster to post to internet and intranet.
- Checked NJ State Library and NJDOT Research Library borrower records for retiring employees to be sure they had no outstanding loans.
- Updated our NJDOT Research Library brochure (attaching document) to reflect new TESU branding and other changes.
- Responded to a total of 199 requests, 185 (or 93%) of which were from NJDOT staff. The rest were from the NJ Dept. of Community Affairs; NJ Dept. of Environmental Protection; North Brunswick Environmental Commission; a NJ resident; Connecticut DOT, Illinois DOT; Iowa DOT; Minnesota DOT; and an out-of-state business.
- The 122 reference requests and 77 document requests together resulted in provision of 56 loans, 49 documents, 10 photocopies, 7 printouts, and 77 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Laurie attended the NJ State Library staff meeting.
- Carol attended 3 AIIM webinars relating to management of digital resources and processes.
- Carol attended the Transportation Librarians Roundtable on *Innovation and Non-Traditional Librarianship* presented by Steve Hanson, Project Control Manager at the Washington State Department of Transportation.
- Carol attended the online meeting of the TRB Knowledge Management Task Force.
- Carol attended the Capital Investment Planning and Grant Administration (CIPGA) Strategic Initiatives meeting.
- Carol attended a Lucidea webinar, *Creating the Ultimate Knowledge Center: Unlocking the Vault* presented by Phil Green.

c: Camille Crichton-Summers

Colleen Dazé

Doris Murphy

Margaret Nizolek

Stefanie Potapa

Amanda Gendek

Paul Thomas

Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

April 2016

7510 - Research Library Operations

Critical Issues

- Our workspace was reconfigured by Facilities to make room for staff from another division. The square footage is about the same, although the footprint has changed. The relocation of seven file cabinets holding the Research manuscripts to the back wall of the stacks may impact future placement of additional shelving units.
- Due to advance notice from HR of NJDOT employee separations, we were able to request return of outstanding loans from retiring NJDOT staff.
- Requested any extra copies of NJ State Highway Department annual reports from the NJ State Library since we have huge gaps in our collection, and access via Environmental Services to see their copies in another (locked) building is cumbersome, especially with our main contact for access retiring soon.

New Initiatives

- Received donation of maps from a retiring employee. We will incorporate these into our existing collection.
- Provided content on the Research Library for CIPGA Strategic Initiatives Communications Group, and suggested our inclusion on CIPGA intranet website. Will be editing the webpages for all the Divisions within CIPGA.
- Purchasing new PCA manual, *Design and Control of Concrete Mixtures*, 16th edition.

Significant Accomplishments

- The documents provided to the DAG for defense of NJDOT in the lawsuit regarding construction of an underground pipe near Route 37 (current Route 35) helped to exonerate the Department in the lawsuit.
- Provided info to the DAG regarding publication of NJ State Highway Department / NJDOT annual reports.
- Sent link to an article on virtual helmets to Employee Safety, Construction, Engineering Maintenance & Operations, and Regions.
- Sent a *Government Technology* article on solar panels in roads to staff from several divisions.
- Had information on the Research Library added to the newly initiated CIPGA newsletter, *CIPGA Scoop*, and edited webpages for some of the Divisions.
- Sent TRB webinar info to Planners for AICP Certification Maintenance credits.
- Provided a *TM&E* article on bicycle lanes to the Bike/Ped Group.
- Sent a *Concrete SmartBrief* article on traffic lights in sidewalks for texting pedestrians to the Bike/Ped Group.
- Located for Research Bureau background information on the use of 10% to calculate indirect cost rate for university contracts.

- Corroborated choice of terms for use in Research Bureau documents.
- Forwarded a Michigan DOT Research Administration annual report to Research.
- Discussed with Multimodal Services staff how to make scanned documents searchable, and how to find newspaper(s) covering an NJDOT Commissioner event in 1968.
- Sent link to the HathiTrust repository of digitized environmental impact statements (EISs) to Environmental Resources.
- Identified and provided study materials for Safety & Data Development [Laurie].
- Notified NJDOT staff in several divisions about the Research Library “purchase” of web-based AASHTO 2016 *Standard Specifications for Transportation Materials...* for 5 simultaneous users.
- Identified and lent the latest edition of an ITE publication on speed humps and tables for Roadway Design [Laurie].
- Lent study material to Right-of-Way [Laurie].
- Identified and provided study materials for Capital Program Support [Laurie].
- Verified a U.S. Dept. of Justice publication, *ADA Standards for Accessible Design*, and obtained print copy for loan to Quality Management Services (QMS).
- Lent an AASHTO publication on geometric design of low volume local roads to QMS [Laurie].
- Identified, located, and lent supervisory materials to Value Engineering staff.
- Verified for Landscape Architecture that only digital format available for an NHI publication.
- Lent an NCHRP report on visual impact to Landscape Architecture.
- Provided info on the Research Library holdings for the *Transporter* to Project Management.
- Identified, located and lent study materials for Project Management [Laurie].
- Sent several articles on drones to Project Management.
- Gave tour to new Structural Design staff and provided a library card [Laurie].
- Introduced Structural Design staff to Google Scholar and to databases via the NJ State Library website, and showed how to access and search for research topic.
- Identified and located study materials for Structural Design [Laurie].
- Located and lent 2001 NJDOT *Road & Bridge Construction Specifications* to Geotechnical Engineering [Laurie].
- Sent notice of an Ohio DOT webinar on USASLOPE software to Geotechnical Engineering and others.
- Verified the latest edition of the AASHTO *LRFD Bridge Design Specifications* for Structural Evaluation.
- Identified, located and lent bridge inspection materials from a variety of publishers to Structural Evaluation.
- Verified and lent PE exam material to Structural Evaluation.
- Lent AASHTO *Bridge Design Specifications* and interim revisions to Structural & Railroad Engineering [Laurie].
- Identified and provided study materials for Structural & Railroad Engineering [Laurie].
- Lent FE Exam material to Structural & Railroad Engineering [Laurie].
- Sent info for a webinar on pavement data collection to Pavement & Drainage Management.
- Registered Central Region-Construction staff for a library card [Laurie].

- Forwarded a VTRC report on lightweight concrete for bridge decks to Structural, Materials, Construction, QMS, and Operations & Maintenance staff.
- Identified material for Maintenance Engineering & Operations for cost data and pricing, and lent a Research Library resource that filled the bill.
- Sent a Cornerstone (blog) article on employee engagement to Maintenance Engineering & Operations.
- Searched for and sent info on contract administration certification to Maintenance Engineering & Operations.
- Identified and provided study materials for Region South-Maintenance [Laurie].
- Referred Operations staff to the NJ State Library for digitization of a 1968 NJ highway map held there.
- Checked donation lists from Kansas DOT against shelf for missing items [Laurie].
- Reviewed TRB newsletters and included relevant new publications in Shared Resources Catalog and uploaded full text where possible [Laurie].
- Added new electronic state DOT reports into Shared Resources Catalog and uploaded full texts [Laurie].
- Added PE staff to distribution list for webinars offering professional development hours (PDHs).
- Responded to a total of 147 requests, 130 (or 88%) of which were from NJDOT staff. The rest were from the NJ State Police; NJ Dept. of Law & Public Safety; a NJ business; Michigan DOT; Minnesota DOT; Kansas DOT; and Virginia DOT.
- The 102 reference requests and 45 document requests together resulted in provision of 46 loans, 16 documents, 2 printouts, and 83 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended the Capital Investment Planning and Grant Administration (CIPGA) Strategic Initiatives meeting.
- Carol attended the online meeting of the AASHTO Research Advisory Committee (RAC) Transportation Knowledge Network (TKN) Task Force.
- Laurie and Carol attended the SLA Rio Grande Chapter webinar, *Open Access: SHARE, CHORUS, and PLOS One*, presented by a panel.
- Laurie attended the Transportation Librarians Roundtable featuring a discussion of the future of the TLRs.
- Laurie and Carol attended the inaugural Transportation Librarians Roundtable Data Management Series webinar, *Creating a Data Management Plan Template at WYDOT*, presented by Enid White of the Wyoming DOT.
- Carol and Laurie attended a Division overview presented Local Aid as part of the CIPGA Strategic Initiatives Communication Group to inform CIPGA staff of each division's work.

c: Camille Crichton-Summers
 Colleen Dazé
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Amanda Gendek
 Paul Thomas
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
May 2016
7510 - Research Library Operations

Critical Issues

- IT has *finally* given Laurie a personal NJDOT email account, Laurie.Strow@dot.nj.gov. Up until now, she has been using our library@dot.nj.gov unit account or her NJ State Library account. We still both have access to the library unit account.
- We have formally given up our fax telephone line (609-530-2052) to the NJDOT Telecomm Unit - Telecomm asked for the line back since they're running short of telephone lines. We recently lost about two-thirds of our workspace countertop area due to the reconfiguration to accommodate Procurement staff, so there is little room to keep the fax machine (donated to us years ago by the NJ State Library), which is quite large. It hasn't been hooked up since we moved from MOB to E&O four years ago. We're fine with scanning and sending PDFs, and can use a local fax machine from another unit if needed.
- Transportation Data & Safety staff asked about the disposition of videolog films and other formats currently housed in their division, now that their curator, Bob Habel has retired. We don't have the space for the materials here, so their fate is unknown.
- Bureau of Materials staff is still hoping for the Bureau of Research to fund access to AASHTO publications through a \$17,000 add-on to the ASTM subscription, which Materials currently underwrites. Sent email from the Oregon DOT librarian in regard to their experience with this situation.

New Initiatives

- Disabled the "Deflection" function in OCLC Resource Sharing, since absolutely no interlibrary loan borrowing requests were coming through, even though we had limited it to Reference and study materials.
- Ordered supplies from DEMCO including book repair materials and additional magnetic shelf label holders.
- Put in a request to Facilities to get rid of the fax machine.
- Capital Program Support has solicited requests for copies of the *Construction Details* to be released later this year - we asked for two copies.

Significant Accomplishments

- Edited the draft intranet web pages for 3 CIPGA divisions.
- Informed Statewide Planning of NJDOT's state tax exemption and got a copy of the certificate from Procurement to avoid sales tax on lunch to be provided for the upcoming Division retreat.
- Provided questions to the organizer for use at the upcoming Statewide Planning retreat [Laurie and Carol].
- Located a newly purchased item in our collection for Statewide Planning.

- Provided an NCHRP Synthesis, *Practice of Rumble Strips and Rumble Stripes*, to Statewide Planning [Laurie].
- Sent notice of a Traffic Injury Research Foundation (TIRF) project to the Bike/Ped group.
- Forwarded several bike safety graphic novels from the City of Phoenix to Bike/Ped.
- Sent *ASCE SmartBrief* and newspaper article about the Rutgers/NJDOT report on road construction and maintenance costs to Research, Construction, and Operations.
- Advised Research on handling a correction to the above Rutgers/NJDOT report after its press release.
- Forwarded an issue of the Montana DOT Research newsletter to Research.
- Sent notice of a University of South Florida 4-part webinar on multimodal transportation planning to planners and Multimodal Services.
- Sent a *Transportation Management and Engineering* article on wrong-way driving to Transportation Data & Safety, Traffic, and TSM.
- Provided location of online construction manuals and forms on NJDOT internet site for Transportation Data & Safety [Laurie].
- With assistance from the NJ State Law Library, located and provided a 1978 Executive Reorganization Plan to Legislative, Administrative, and Regulatory Actions.
- Located and sent a *New Jersey Register* article to Legislative, Administrative, and Regulatory Actions.
- Located and sent links to 3 other documents requested by Legislative, Administrative, and Regulatory Actions.
- Located construction info on Route 18 for Communications.
- Sent a *Science Daily* (University of Utah) article on bridge column seismic repair to Bridge and Maintenance.
- Did a literature search on public sector “gainsharing” for the Division of Budget.
- Sent a *Government Technology* article on cybersecurity in New Jersey to IT.
- Identified, obtained, and lent study materials for multiple IT staff [Laurie and Carol].
- Sent notice of a webinar on the insecurity of network printers to IT.
- Identified, located, and lent study materials to Capital Program Support.
- Located and lent multiple publications on tree care to Landscape Architecture.
- Identified and lent study materials to Geotechnical Engineering, Road & Bridge Contract Administration (Operations), Transportation Data & Safety, Materials, Right-of-Way, Local Aid, and Procurement [Laurie].
- Verified correct title and located the AASHTO *Standard Specifications for Highway Bridges*, 17th edition, and the latest bridge construction specifications for Structural Design.
- Identified, located, and lent standards, reference material, and texts for Structural Design.
- Directed Structural & Railroad Engineering staff to the holders (in their bureau) of the AREMA manual.
- Verified citation and lent Volumes 2 and 4 of the *Bridge Engineering Handbook*, 2nd edition, to Structural & Railroad Engineering [Laurie].
- Lent a new acquisition, *Design and Control of Concrete Mixtures*, 16th edition, to Structural & Railroad Engineering.

- Lent the AASHTO *LRFD Bridge Design Specifications*, 2014 edition with 2015 and 2016 Interim Revisions to Structural & Railroad Engineering [Laurie].
- Located and provided for onsite use the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*, 6th edition, and 2015 Interim Revisions to Structural & Railroad Engineering [Laurie].
- Sent notice of an Ohio DOT webinar on grade crossing hazard ranking to Structural & Railroad Engineering and to Transportation Data & Safety.
- Sent notice of a *Storm Water Solutions* webinar to PEs, Pavement, Construction, and Environmental Services.
- Sent notice of a TRB webinar on *unpaving* roads to PEs and Pavement.
- Sent notice of an FHWA webinar on work zones to PEs.
- Sent a list of PE materials held in the Research Library to Operations.
- Sent an article from *Progressive Railroading* on the proposed Hudson tunnel project to Operations.
- Sent an NJ.com article on a futuristic Hudson River bridge to Operations.
- Reviewed current TRB e-newsletter and added digital publications to the Shared Resources database for inclusion in the quarterly list of new acquisitions [Laurie].
- Added new electronic research reports from Virginia, New York State, and Montana for listing in the quarterly report of *Selected Recent Acquisitions* and uploaded PDFs to the shared drive [Laurie].
- Spent \$2498.56 of \$2500-allocated 2016 fiscal year books and supplies budget (\$1.44 under budget!).
- Distributed many new 2016 commemorative NJDOT 50th Anniversary highway maps to library visitors and passersby.
- Responded to a total of 163 requests, 147 (or 90%) of which were from NJDOT staff. The rest were from the NJ Dept. of Environmental Protection; a NJ municipality; an NJIT student; a NJ resident; Georgia DOT; Illinois DOT; and the University of South Carolina.
- The 87 reference requests and 76 document requests together resulted in provision of 62 loans, 38 documents, 1 photocopy, 4 printouts, and 58 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended the online meeting of the AASHTO Research Advisory Committee (RAC) Transportation Knowledge Network (TKN) Task Force.
- Carol attended the Division of Environmental Resources & Context Sensitive Solutions presentation given as part of the CPGA Strategic Initiatives Communication Group to inform CIPGA staff of each division's work.
- Carol attended the Capital Investment Planning and Grant Administration (CIPGA) Strategic Initiatives meeting.
- Laurie attended a Library Journal-sponsored webinar, "3D Printing," presented by Denise Bennet and Sara Russell Gonzalez of the University of Florida.
- Laurie attended a Library Journal-sponsored webinar, "Open Access: The Future of Funding," presented by a panel from three different libraries.

- Laurie attended an ALAPublishing webinar presented by author Thomas Brenndorfer on his book, *RDA Essentials*.
- Laurie and Carol attended the Transportation Librarians Roundtable, “Signals for the Library of the Future” presented by Miguel Figueroa of the [ALA} Center for the Future of Libraries.
- Carol attended the Transportation Libraries Roundtable Data Management Series presentation, “Creating Data Management Plan Guidance for Iowa Department of Transportation Researchers” presented by Iowa DOT staff and former staff.
- Carol attended an ETKN telephone meeting.
- Carol attended the NJ State Library staff meeting.

c: Camille Crichton-Sumners

Colleen Dazé

Doris Murphy

Margaret Nizolek

Stefanie Potapa

Amanda Gendek

Paul Thomas

Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

June 2016

7510 - Research Library Operations

Critical Issues

- In order for NJDOT staff to access the new AASHTO digital publications, PDF and web-based, IT had to install a fileopen plugin for Adobe Acrobat Reader DC. While they were in the process of pushing this out to the whole Department, it became evident that they were installing an old version. So now it has to be uninstalled, and the new version installed.
- Staff in Bridge Engineering & Infrastructure Management do not seem to have access to the 9 copies of ASSHTO bridge publications distributed to their division. The library's previous location on the 5th floor (where that division is located) was more convenient for them. Future digital access should help at least partially, as would better procedures for distribution and communication within the division.
- Assisted Research staff with wording for a write-up on Research Library services.

New Initiatives

- Received 2 historical items from a retiring employee and adding to collection.
- Discussing digitization with Communications. The Webmaster is digitizing the NJDOT *Transporter* newsletters, and Carol asked Communications for Webmaster to make them searchable as a single file or database instead of only as individual PDFs.
- Added a new PE exam passer to the webinar notification list. Others may also have passed, and would need to advise us to be added.

Significant Accomplishments

- The location arrangements for Statewide Planning Staff Retreat held at Thomas Edison State University went smoothly, and the Division was saved the \$400 fee normally charged for outside event usage due to the Research Library's TESU affiliation.
- Sent 4 TRB videos regarding air quality to Statewide Planning.
- Sent link to Volpe Thought Leadership Series on "The Future of Transportation..." to Planning, Multimodal Services, and Highway & Traffic Design.
- Located and lent study guides for Administrative Assistant to Planning, Outdoor Advertising, Program Management Office, and Operations. [Laurie]
- Sent link to Northwestern University online exhibition, [*Bicycles on Paper*](#), to the Bike/Ped Group and other bike enthusiasts. Also sent link to the [*Old Spokes Home Bicycle Museum*](#) in Burlington, VT.
- Advised Research in regard to handling of a correction to a Rutgers/NJDOT report already distributed via press release.
- Forwarded new digital issue of *Texas Transportation Researcher* to Research.
- Searched and provided library holdings for previously created (prior month) list of Mercer County newspapers potentially containing September 1968 articles about David Goldberg, the first NJDOT Commissioner, for Fixed Guideway.

- Sent special issue of *ASCE SmartBrief* to Maritime Resources.
- Identified, located, and lent PE study materials to Multimodal Services. [Laurie]
- Checked procedure for disposing of floppy discs for Local Aid, and referred to Records Management who replied with policy and procedure.
- Located and lent a book from the NJ State Library to Environmental Resources.
- Identified holdings regarding the Primavera software and lent to Data Development. [Laurie]
- Lent an ITE publication to Data Development. [Laurie]
- Located a 1984/1985 NJ state highway map from our collection for Communications to use in the NJDOT 50th Anniversary display, then will donate (copy 2) to GIS.
- Verified our holding of the April 1969 *Highway Facts* (NJDOT) for Communications.
- Identified, located, and lent study guides for Research Analyst to Legislative, Administrative & Regulatory Actions.
- Sent notice of an American City & County webinar on LED lighting to Facilities and Traffic Engineering.
- Sent public speaking article referenced in *Concrete SmartBrief* to NJDOT Toastmasters members.
- Sent notice of New Jersey Day activities at the NJ State Archives to NJDOT staff with historical interests.
- Located and lent management book from collection to Auditing.
- After much assistance from AASHTO Tech Support and NJDOT IT, provided access to new AASHTO digital publications to CPM staff [subsequently found not yet fully functional].
- Sent *AZoCleantech* article on solar roads to Highway & Traffic Design, Construction & Materials, Research, Environmental Resources, Environmental Services, and Bridge Engineering & Infrastructure Management.
- Searched the literature for state programs on leasing rights-of-way along interstates and freeways for Roadway Design and provided full-text for requested records.
- Identified, located, and lent study guide on scheduling to Traffic Engineering. [Laurie]
- Sent notice of a new ASCE journal, *Journal of Transportation Engineering, Part B: Pavements*, to Pavement Management, etc.
- Advised Right-of-Way staff on best places for access to microfilm reader/printer.
- Identified, located and lent supervisory study materials to Access Design and Accounting. [Laurie]
- Found and sent links to webinars on access design to Major Access.
- Identified and lent RSMMeans *Heavy Construction Cost Data* for use by Landscape Architecture.
- Sent an article referenced in *Concrete SmartBrief* regarding the use of rebar in concrete to Bridge Engineering & Infrastructure Management and Operations staff.
- Explained access to ASTM standards and provided full text to Geotechnical Engineering.
- Purchased *Principles of Foundation Engineering* for the collection and lent to Structural Design.
- Identified, located, and lent numerous study guides pertaining to Senior Engineer for Structural Design, Structural & Railroad Engineering, Pavements, Maintenance, and Operations [Laurie & Carol]

- Located books on strength and/or mechanics of materials [Carol] and lent [Laurie] to Structural Evaluation.
- Identified, located, and lent study guides for Engineer titles to Structural Evaluation.
- Identified, located, and lent study guide on reading comprehension to Structural Evaluation.
- Identified and lent AASHTO *LRFD Bridge Design Specifications*, and interim revisions to Structural Evaluation and, subsequently, to Structural & Railroad Engineering. [Laurie & Carol]
- Provided link to USGS map data to Structural & Railroad Engineering. [Laurie]
- Explained the holdings of the NJDOT Engineering Documents Unit to Structural & Railroad Engineering staff.
- Given incorrect and incomplete (“liberation mitigation device”) citation, identified, located, and provided full text for a TRB annual meeting paper on vibration mitigation device to Structural & Railroad Engineering.
- Identified, located, and lent AASHTO *LRFD Construction Specifications* for Structural & Railroad Engineering.
- Identified, located, and lent the AASHTO *Guide Specifications for LRFD Seismic Bridge Design* and interim revisions to Structural & Railroad Engineering. [Laurie]
- Lent *Bridge Engineering Handbook*, 2nd ed. to Structural & Railroad Engineering. [Laurie]
- Located, photocopied, scanned, and sent specifications from a neighboring (Operations) engineer’s copy of a publication of the SSPC, the Society for Protective Coatings, to Construction-Central Region.
- Identified, located, and lent study guides for Construction & Maintenance Technician to Materials. [Laurie]
- Identified, located in collection, and lent the “RSMeans book” to Operations.
- Cataloged several donated materials and newly acquired items. [Laurie]
- Checked items offered via TRANLIB listserv against Research Library holdings for needed items. [Laurie]
- Added unneeded donations to the giveaway list. [Laurie]
- The *Selected Recent Acquisitions* list for the 2015 4th quarter was edited and sent to the Webmaster for posting to the NJDOT intranet and internet sites.
- Responded to a total of 267 requests, 245 (or 92%) of which were from NJDOT staff. The rest were from the NJ Dept. of Environmental Protection; Burlington County; a NJ resident; the U.S. Army Corps of Engineers (2 locations); Illinois DOT; Clemson University; Cy-Fair College (TX); Michigan Technical University; New York University; Texas A&M; Texas Technical University; and the University of Arkansas at Little Rock.
- The 153 reference requests and 114 document requests together resulted in provision of 92 loans, 15 documents, 3 photocopies, 3 printouts, and 154 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended a Sirsi-Dynix webinar, “How to Lead Your Library, Part Two: Organizational Politics,” presented by James Matarazzo, Simmons College and Toby Pearlstein, Consultant.
- Laurie and Carol attended the Division of Statewide Planning’s staff retreat held at TESU.

- Laurie and Carol attended the Transportation Librarians Roundtable on the Digital Public Library of America (DPLA) presented by Samantha Gibson, DPLA Outreach Coordinator.
- Laurie and Carol attended a Capital Investment Planning and Grant Administration (CIPGA) presentation by and about the Division of Transportation Data & Safety.
- Carol and Laurie attended the Elsevier webinar, “Capturing and Communicating the Value of IM Services in a Corporate Culture,” presented by Ulla de Stricker, consultant.
- Carol attended the Transportation Librarians GTRIC meeting at the Special Libraries Association Annual Conference in Philadelphia, and also a conference session, “Just the Facts: Data Curation and Management,” presented by Mary Frances Lembo, Pacific Northwest Laboratory.
- Carol attended the WTS webinar, “Transitioning from Tactician to Strategist,” presented by Dona Munsch and Jo Miller.
- Carol attended the WebJunction webinar, “Above and Beyond: Developing a Culture of Organizational Citizenship,” presented by Rachel Rubin, Bexley (OH) Public Library.
- Carol attended the TRB Knowledge Management Task Force telephone meeting.
- Laurie and Carol attended the Transportation Libraries Roundtable Data Management Series presentation on the WSDOT Metadata Catalog, presented by Andy Everett of the Washington State DOT.

c: Camille Crichton-Sumners
 Amanda Gendek
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

July 2016

7510 - Research Library Operations

Critical Issues

- PC and/or network issues have affected attendance at webinars and control of files (for Carol). IT intervention is required.
- Erroneous form input on the website necessitated the webmaster removing our forms temporarily. We will consolidate the forms into one, and it will be reinstated with updated protection.
- IT pushed the Adobe FileOpen plugin to the Department. This should enable access to the AASHTO digital publications.

New Initiatives

- Received 6 boxes of items from Materials. We will see what should be added to collection and what given away.
- Will purchase new PE materials when NJSL business office gives the OK.
- Checked Wisconsin DOT's offer of Midwest Roadside Safety Facility reports in print and CD-ROM against our holdings so we could request missing items.
- Posted ASCE flyers for the New Jersey "Raise the Bar" Committee announcing open meetings and events regarding legislation to change the educational requirements for PE licensure from a bachelor's to a master's degree in engineering.

Significant Accomplishments

- Consolidated the forms on the website into one and made some other revisions (Webmaster hasn't put them all through yet).
- Sent the recent University of Southern Florida, Center for Urban Transportation Research e-newsletter to NJ Transit.
- Completed a survey for the Colorado DOT concerning library services.
- Answered questions from Capital Program Support about AASHTO distributions and publication locations.
- Sent article on bicycles and pedestrians to the Bike/Ped group.
- Sent a NEPA training PowerPoint file to Environmental Resources.
- Located a copy of the AASHTO *LRFD Bridge Design Specifications* with interim revisions for Bridge Engineering & Infrastructure Management.
- Downloaded an AASHTO digital publication and sent notice to relevant units for access.
- Sent notice of a *Roads and Bridges* webinar to PEs for professional development hours.
- Forwarded a safety newsletter produced by UMTRI and TTI to Transportation Data & Safety.

- Answered question from Research regarding subscription to Westlaw.
- Sent an NJ.com article on the New Jersey construction shutdown to Operations.
- Downloaded and printed an AASHTO digital document for Highway & Traffic Design.
- Sent notice of a TRB webinar on Intellectual Property and a link to the corresponding NCHRP report to Transportation Systems Management.
- Sent notice of a new free online magazine, *Water Efficiency*, to multiple units.
- Located old editions of the *ACI Manual of Concrete Practice* for onsite use by Materials.
- Located and printed 2 *New Jersey Register* articles for Legislative, Administrative and Regulatory Actions.
- Sent notice of a new AASHTOWare software product to Outdoor Advertising.
- Sent a CNNStyle article on glow-in-the-dark cement to Materials and others.
- Recommended use of the *Straight Line Diagrams* to Operations for viewing bridge-level maps.
- Borrowed a book from the NJ State Law Library, *New Jersey Zoning and Land Use Administration*, for Legislative, Administrative and Regulatory Actions and for Right-of-Way.
- Identified, located, and lent exam study materials for Auditing.
- Lent a print NCHRP report to Research.
- Located an older 2008 version (print only) of an AASHTO provisional standard on inertial profiling systems on another floor; photocopied, scanned, and sent to Rutgers/NJDOT consultant.
- Lent AASHTO publication on LRFD structural supports to Structural & Railroad Engineering.
- Forwarded a TED Talk about trees to Landscape Architecture & Environmental Solutions.
- Explained the concept of the Transportation Knowledge Networks to Planning staff and sent the ETKN LibGuide on *Recommended Resources in Transportation* with link to a video on the TKNs.
- Sent a link to a TCRP report to NJ Transit.
- Notified Research that a 2013 article in the *Journal of Materials in Civil Engineering* that was coauthored by Research staff has been cited.
- Sent notice of a new ASCE journal on pavements to Pavement Design and to Operations.
- Located a *Star-Ledger* article for Administration and provided digital (lacked photos) and print copies.
- Identified, located, and lent exam study material to Operations.
- Reviewed and revised the Research Library portion of the Research 2016 *Procedures Manual*.
- Lent an NCHRP report on agency leadership to Transportation Systems Management.
- Sent notice of a free webinar to PEs and Construction.
- Borrowed via interlibrary loan a text on prestressed concrete for Structural Design.
- Borrowed via interlibrary loan an audiobook on management for Local Aid.
- Did two literature searches regarding bus and paratransit for NJ Transit.
- Brought the fax machine to Facilities for disposal.

Laurie:

- Continued to enter new and backlogged materials into the Shared Resources database.
- Lent RSMMeans *Heavy Construction Cost Data*, 2004 edition, to UNC at Wilmington.
- Lent AASHTO *Guide for the Development of Bicycle Facilities*, 2012, to Roadway Design.
- Provided library card registration to Roadway Design.
- Identified study materials for Traffic Engineering and provided locations at NJ State Library.
- Gave tour, library card, and demonstrated where to find TRB resources, TRID, ASCE Library, and NJ State Library databases to Mobility & Systems Engineering.
- Lent AASHTO *LRFD Bridge Construction Specifications*, 2012, with interims through 2016, to Structural & Railroad Engineering.
- Lent several NCHRP reports to Structural & Railroad Engineering.
- Explained AASHTO and TRB materials available for use for the PE exam and provided library card to Project Management.
- Lent PE study materials to Materials.
- Verified and lent PE study materials to Structural Design.
- Verified latest edition of AASHTO *LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals* and lent to Geotechnical Engineering.

Both:

- Responded to a total of 185 requests, 153 (or 83%) of which were from NJDOT staff. The rest were from NJ Transit; the NJ State Police; the NJ Dept. of Environmental Protection; Rutgers University; Colorado DOT; Minnesota DOT; Washington State DOT; Fort Hood (Texas); San Francisco Municipal Transportation Agency; SUNY Buffalo; Purdue University; University of Delaware; University of North Carolina - Wilmington; University of Texas - Rio Grande Valley; and Texas Technical University.
- The 122 reference requests and 63 document requests together resulted in provision of 41 loans, 38 documents, 2 photocopies, 3 printouts, and 101 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended a Foundation Center webinar, "Introduction to Proposal Writing."
- Carol attended the webinar for the 2016 ALA Annual Tech Wrap-up presented by Marshall Breeding, consultant, Bohyun Kim, University of Maryland, and Andromeda Yelton, consultant.
- Carol attended the quarterly Planning Roundtable at NJDOT.
- Carol attended a Sirsi-Dynix webinar, "How to Lead Your Library, Part Three: Evaluation," presented by James Matarazzo, Simmons College and Toby Pearlstein, Consultant.
- Laurie attended the virtual Transportation Librarians Roundtable on information resources available through the National Transportation Safety Board (NTSB) presented by Jeffrey Marcus and Carol Floyd.
- Carol attended the Lyris "Going Digital" webinar presented by Leigh Grinstead, Tom Claeson, et al.

- Carol attended the Lucidea webinar, “Managing Online Resources,” presented by Phil Green.
- Carol attended the TRB Standing Committee on Library and Information Science for Transportation (ABG40) (LIST) Committee midyear telephone meeting.
- Laurie attended a National Academies webinar, “Frontiers in Decadal Climate Variability,” moderated by An Nguyen-Gia.
- Carol attended an SLA webinar introducing their new online community platform, **SLA Connect**, which replaces the SLA unit listservs and has other functionality as well.
- Laurie attended the online Transportation Librarians Roundtable Data Management Series presentation, “Introduction to the DMPTool,” presented by Dr. Stephanie Simms of the California Digital Library.
- Carol attended the SLA Transportation Division Board telephone meeting and presented the Treasurer’s report.

c: Camille Crichton-Summers
 Amanda Gendek
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

August 2016

7510 - Research Library Operations

Critical Issues

- Connection issues have continued to affect attendance at webinars. IT has identified the problem as a Websense (security) issue and will work to allow access as needed.
- ITE claims that they resent some issues of journals we never received, but we still haven't received them.
- The Department's ASTM subscription, customarily paid by the Bureau of Materials, has been held up due to the State Transportation Trust Fund (TTF) shutdown.
- The link to the NJ State Library catalog on the Research Library website needs to be updated.
- Per an August email from the National Technical Information Service (NTIS), access to reports in the [National Technical Reports Library \(NTRL\)](#) is free with enhanced searching effective October 1, 2016 as [Open NTRL](#)!

New Initiatives

- We have begun adding locations (more specific than "Research Library") for records of materials not cataloged with Library of Congress call numbers in the Shared Resources database.
- Forwarded information regarding [AASHTO's TC3](#) web-based training to Statewide Planning/CIPGA to see if they want to recommend NJDOT participation to Administration.
- We're displaying new ASCE New Jersey Committee "Raise the Bar" flyers regarding legislation to change the educational requirements for New Jersey PE licensure from a bachelor's to a master's degree in engineering.

Significant Accomplishments

- Identified, located, and lent the "CPM reorg report" (aka the "OBK Report") for use by the Assistant Commissioner of Administration and the Deputy Commissioner.
- Located a digitized edition of a 1972 Session Law for Legislative, Administrative, & Regulatory Actions, and showed multiple staff members how to access session laws via Rutgers University-Law Newark.
- Lent the *Manual on Uniform Traffic Control Devices* (MUTCD) to Legislative, Administrative, & Regulatory Actions.
- Created and sent content on the Research Library to Research for inclusion in the SPR project descriptions and thumbnails.
- Provided grammar guidance to Research.
- Forwarded the current issue of *Texas Transportation Researcher* to Research and Multimodal Services.
- Downloaded and sent the link for an AASHTO e-publication, *Guide for Maximum Dimensions and Weights for Motor Vehicles*, 5th edition, to multiple units, and printed a copy for Multimodal Services.
- Sent a *TM&E* article on unmanned aerial vehicles (UAVs) to Aeronautics.

- Forwarded an article regarding a new Illinois bike law to Planning and Government & Community Relations.
- Sent link to a *Washington Post* article on the effects of climate change and NEPA regarding road construction to Planning.
- Forwarded current issue of the *Journal of Transport and Land Use* to the Bike/Ped Group.
- Discussed donation options with Cultural Resources for some of their unwanted materials in storage.
- Identified, located, and lent study material for Environmental Resources.
- Provided info on *ITE Journal* subscription to Transportation Data & Safety.
- Requested and lent study materials from the NJ State Library to Local Aid.
- Edited an article about NJDOT Toastmasters for the Administration e-newsletter.
- Forwarded to Employee Safety, Construction, and Operations a TechCrunch article on a start-up company seeking to protect workers from hazardous exposures.
- Sent notice of a free ENR webinar on construction project risks to CPM, Operations, and the Inspector General.
- Sent “HSDL Critical Releases in Homeland Security” to the Office of Emergency Management (OEM).
- Searched and provided links and materials on traffic calming for Right-of-Way.
- Located and lent study material to Outdoor Advertising.
- Identified, located, and lent the *Engineering Technician* study guide for Traffic Engineering.
- Forwarded TRB webinar info to PEs and Planners.
- Provided a list of Fundamentals of Engineering (FE) materials held here, and lent several to Project Management.
- Gave information about *Pronunciator* to Project Management staff interested in French and Korean.
- Verified the latest edition of AASHTO *Guidelines for Geometric Design of Very Low-Volume Local Roads* and lent to Quality Management Services.
- Verified that the 2011 14th edition is still the latest for the *Steel Construction Manual*, and lent to Structural Design.
- Identified, located, and lent an AASHTO publication to Structural Design.
- Verified the latest edition of the AASHTO *Roadside Design Guide* and lent to Structural Design.
- Located print editions of two books by Braja M. Das for Geotechnical Engineering.
- Sent notice of free Forester University webinars to PEs and CPM staff.
- Forwarded current issue of *ASCE SmartBrief* focused on pipelines to CPM units and Operations.
- Offered and lent an NCHRP report on estimating preconstruction costs to Operations.
- Sent an article on employee retention to Operations.
- Assisted the NJ State Library with locating a photo of Sigvald Johannesson, designer of the Pulaski Skyway, for an outside requestor.
- Sent info on road diets to the North Brunswick Environmental Commission.
- Lent *Appraising the Appraisal* via interlibrary loan to the NY State Appellate Division.

- Sent notice of a free CUTR webinar on mobile fare payments to NJ Transit.

Laurie:

- Continued to enter new and backlogged materials into the Shared Resources database; completed entering the “Organizations” section of the collection.
- Identified, located, and lent study materials to staff in Region South - Maintenance.
- Identified, located, and lent study material to Traffic Engineering.
- Provided list of NCEES study materials held to Local Aid and lent several items.
- Identified and lent PE materials to Project Management.
- Showed Operations staff how to enroll in an NJDOT Defensive Driving course via the intranet.
- Located and lent study material to Right-of-Way.
- Identified, located, and lent AASHTO *Guide Design Specifications for Bridge Temporary Works* and 2008 revisions to Structural Design.
- Copied, scanned, and sent a document for fulfillment of an interlibrary loan request from University of Delaware.
- Identified, located, and lent study material to Quality Management Services.

Both:

- Located (Carol) and lent (Laurie) an ITE publication on speed humps to Right-of-Way.
- Responded to a total of 137 requests, 125 (or 91%) of which were from NJDOT staff. The rest were from NJ Transit; the NJ State Library; the NJ Dept. of Environmental Protection; the North Brunswick Environmental Commission; Illinois DOT; Minnesota DOT; Oregon DOT; U.S. Naval Undersea Warfare Center; New York State Appellate Division; Northern Arizona University; University of Delaware; and Siouxland Libraries.
- The 85 reference requests and 52 document requests together resulted in provision of 41 loans, 26 documents, 1 photocopy, 2 printouts, and 67 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended a CIPGA Strategic Initiatives meeting.
- Laurie and Carol attended the Division of Multimodal Services Overview presentation.
- Laurie listened to audio portion (due to connection issues mentioned previously) of the virtual Transportation Librarians Roundtable Data Management Series on “Data Licensing” presented by Heather Wiggins, Catholic University Dept. of Library and Information Science.
- Laurie “attended” a *Library Journal* archived webcast, “Reimagining Library Technologies: FOLIO – the Future of Libraries is Open,” presented by Michael Winkler of OLE (Open Library Environment); Peter Murray, Open Source Community Advocate; and Neil Black of EBSCO.

c: Camille Crichton-Summers
Amanda Gendek
Doris Murphy
Margaret Nizolek
Stefanie Potapa
Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

September 2016

7510 - Research Library Operations

Critical Issues

- Due to the shutdown of the Transportation Trust Fund, the Bureau of Materials has been unable to renew the Department subscription to ASTM, so full text of standards is currently unavailable through the portal. We have been able to obtain them as needed, however, by requesting from Rutgers University.
- The connection issues for webinars and online meetings are improving, as IT has worked to resolve the exceptions as they become aware of them; sometimes, however, the issues aren't apparent until the meetings start, and then it is often too late for a fix to allow access.

New Initiatives

- Sent email to the DOT Retirees Association (DOTRA) corresponding secretary to see if she can find a copy of the NJDOT *Bridge Design Manual*, first edition from 1983. Apparently, no one currently here in the Department has it, including staff in Bridge Engineering & Infrastructure Management.
- We will again have a table at the upcoming NJDOT Research Showcase – this year Laurie will be on her own since Carol will be away.
- We will be offering extra materials to other libraries via the Transportation Librarians discussion list, and also to Research Showcase attendees.

Significant Accomplishments

- Sent updated links to the NJ State Library catalog for the intranet and internet websites.
- Identified, located, and lent the “PM Body of Knowledge” (PMBOK) to Capital Investment Planning & Grant Administration.
- Provided grammar guidance to Research.
- Ordered and received new PE materials.
- Identified a web-only TCRP report for NJ Transit, provided link to full text, and ordered a print copy (which they prefer) from TRB.
- Verified, located, and borrowed textbooks via interlibrary loan for use by Geotechnical Engineering and Structural Design.
- Located PE materials held throughout the Department for Materials staff.
- Explained e-book access via the NJ State Library to Project Management.
- Referred Region South-Survey staff to their training coordinator for status of access to AASHTO TC3 webinars.
- Sent Wyoming documents on intellectual property rights to Research.
- Identified, located, and provided PDFs of NJDOT research studies on maritime/dredging to Statewide Planning.

- Verified and located the latest AASHTO *Roadside Design Guide* and lent to Structural Design.
- Identified, located, and lent civil service study materials for staff from Accounting & Auditing, CADD Support, Local Aid, Operations, Project Management, Research, Statewide Planning, and Traffic Engineering.
- Sent a link to the USDOT 50th Anniversary logo to Communications to compare with NJDOT's.
- Identified, located, and lent the AASHTO "MASH Manual," *Manual for Assessing Safety Hardware*, to Structural Evaluation and to Structural & Railroad Engineering.
- Sent notices of webinars to PEs; Legislative, Administrative & Regulatory Actions; the Inspector General; Landscape Architecture; Research; Right-of-Way; Roadway Design; and Statewide Planning.
- Provided print copy of an NCHRP report to Statewide Planning.
- Verified information on a Cengage Learning Solution manual for Operations.
- Explained the ORCID ID for authors to Structural & Railroad Engineering and sent link.
- Edited the September issue of the *CIPGA Scoop* newsletter for compiler/editor in Freight Services.
- Added several PEs to the distribution list for notification of PDH opportunities.
- Assisted an NJIT VP with verifying the source of data for a National Science Foundation table of Top 10 NJ schools whose undergraduates attain doctoral degrees, as mentioned in an *NJ Biz* article.
- Subsequently assisted the *NJ Biz* article author with sources of data for an upcoming article on yacht registrations.
- Advised Contract Compliance staff with steps to take to gain credibility in a field of physical science.
- Searched the TRB Publications Index for a sketchily described NCHRP report and sent the likely candidate to Structural & Railroad Engineering.
- Sent an FHWA report on pavement lifecycle assessment to Pavement Design, Maintenance, Construction, Environmental Resources, and Statewide Planning (for asset management).
- Using an online resource, identified a tree by its leaves for Operations.
- Sent notice of a new AASHTO web-based publication to several units.
- Showed Structural & Railroad Engineering how to access the above, and provided print copies to Bridge Engineering & Infrastructure Management.
- Sent a *Seattle Times* article regarding wildlife overpasses to Environmental Resources.
- Sent the current issue of the *UMTRI Review* to Research and to Transportation Data & Safety.
- Sent the current issue of the *Homeland Security Affairs* to the Office of Emergency Management (OEM).
- Obtained ASTM standards via interlibrary loan for Materials and for Structural Design.
- Provided access to historical Jerseyana items held at the NJ State Library for Statewide Planning.
- Assisted several staff in different units with webinar registrations.
- Located a web-based AASHTO specification, printed, scanned, and sent to NJDEP.
- Verified the latest edition of an ASTM specification for Pavement Design.
- Sent a *Volpe Newsletter* article on providing bats with nesting spots in infrastructure to Environmental Resources.
- Updated our listing in the *American Libraries Directory*.

- Entered errata corrections to the newly acquired *Principles of Foundation Engineering*.
- Sent the edited first quarter 2016 list of *Selected Recent Acquisitions* to be posted on the intranet and internet websites.

Laurie:

- Identified and lent the 2011 NJDOT *NJ Historic Roadway Study* to Legislative, Administrative & Regulatory Actions.
- Gave a tour and library card to staff from Roadway Design.
- Assisted Research in locating information on a Rutgers University/NJDOT research project.
- Identified, located, and lent the “Roadside Manual,” i.e., the AASHTO Roadside Design Guide, to Access Design.
- Identified, located, and lent civil service study materials for staff from Accounting & Auditing; Administration; Geotechnical Engineering; Operations; Project Management; Regional Design; Structural & Railroad Engineering; Structural Evaluation.
- Identified and lent FE materials to Structural Evaluation.
- Identified and lent PE materials to Structural Design.
- Identified, located, and lent the “MASH Manual” to Structural Evaluation.
- Lent Volume 1 of the *Bridge Engineering Handbook* to Structural & Railroad Engineering.
- Lent the *PCI Design Handbook*, 6th edition to Structural Design.
- Lent 2 titles, both coincidentally published in 1966, from the collection to Operations and to Structural Evaluation.
- Added new Texas DOT research reports to the Shared Resources Catalog and uploaded full texts.
- Provided library cards to staff from various units.

Both:

- We hosted a visit from the NJ Department of Environmental Protection librarians who came to visit to check our facilities and spine labels.
- Responded to a total of 262 requests, 233 (or 89%) of which were from NJDOT staff. The rest were from NJ Transit; the NJ Dept. of Environmental Protection; NJIT; an NJ business; Michigan DOT; Minnesota DOT; New York State DOT; Virginia DOT; Florida Gulf Coast University; Iowa State University; Northern Arizona University; San Jose State University; University of Arkansas; University of Buffalo; University of Massachusetts-Amherst; University of New Mexico; University of Texas at Arlington; University of Washington-Seattle; and University of Western Australia.
- The 140 reference requests and 122 document requests together resulted in provision of 93 loans, 35 documents, 3 photocopies, 6 printouts, and 125 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Laurie attended a LibraryLinkNJ-sponsored webinar, “Simplifying Libraries,” presented by Alex Lent, Director, Millis, MA, Public Library.
- Carol attended the NJ State Library staff meeting.

- Laurie and Carol attended the Transportation Librarians Roundtable, “Document the Now: Building Tools and a Community for Social Media Archiving,” presented by Bergis Jules, Archivist at the University of CA at Riverside.
- Carol attended the online AASHTO Research Advisory Committee (RAC) TKN Task Force meeting which focused on issues related to AASHTO’s move to digital publications and dissemination procedures.
- Carol attended the Library Leadership & Management Association (LLAMA) Thought Leaders Series webinar featuring R. David Lankes, Director, University of South Carolina’s School of Library & Information Science.
- Carol attended the NJDOT Bureau of Research “University Workshop: Changes to Research Project Delivery” presented by Calvin Edgehill, FHWA New Jersey Division and NJDOT Research Bureau staff.
- Carol attended the NJLA Commons Virtual Keynote, “Creating Virtual Training Videos with Urban Libraries Unite” presented by Lauren Comito and Marissa Richardson of Queens Library and Urban Libraries Unite.
- Carol attended the Contoural webinar “Who Should Own (and pay for) Information Governance? Legal, IT, or...?” presented by Kathryn Hilton and Mark Diamond of Contoural, Inc.
- Laurie and Carol attended the Capital Investment Planning and Grant Administration (CIPGA) overview series presentation by Division of Statewide Planning staff.
- Laurie and Carol attended the Transportation Librarians Roundtable Data Management Series session on “Understanding Digital Object Identifiers (DOIs)” presented by Jannean Elliott, U.S. Dept. of Energy’s Office of Scientific & Technical Information, and Joan Starr of the California Digital Library.
- Carol listened to the recording of the SirsiDynix webinar, “Ethics in Librarianship,” presented by Sarah Houghton, Director, San Rafael (CA) Public Library.

c: Camille Crichton-Summers
 Amanda Gendek
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
October 2016
7510 - Research Library Operations

Critical Issues

- Carol asked AASHTO to add library@dot.nj.gov to publications distribution list since she will be away for three weeks, and we need to download AASHTO digital publications before anyone else to ensure consistency of access for the Department.
- The Bureau of Materials is following up with Fiscal regarding access to ASTM; we are continuing to request ASTM standards via interlibrary loan in the meantime.
- Dave Lambert, CPM Assistant Commissioner, has penciled the ASTM + AASHTO publications (electronic access) into the budget for FY 2018. Materials staff (about to retire) has been pushing for this.

New Initiatives

- Sent email to TRB recommending that they include report covers for their Web-only reports. The PDFs lack covers and even running titles, and the cover pages do not print from the HTML links. Without covers or at least running titles, there is no identification for these documents in PDF format.
- Suggested to Research staff that the Research Bureau consider the Research Library as a *program* rather than as a project, as it has been since the library's reopening in 1998.
- Capital Program Development staff asked IT to install the PRS system on the Research Library's public PC so that users can access this software from the Library, and IT installed it shortly thereafter.

Significant Accomplishments

- Made changes to the online form on the Research Library website, and the NJDOT webmaster created a new online form based on the changes/edits requested.
- Requested print copies of a Web-only document from TRB on behalf of NJ Transit and for the Research Library collection; created a cover for the printed copies since TRB's PDF and printed copies lacked them, and the covers were unprintable from the HTML version (see New Initiative #1 above).
- Downloaded three AASHTO digital publications and provided notice and access instructions to relevant units.
- Forwarded a University of North Carolina Highway Safety Research Center article to the Bike/Ped group.
- Lent PE materials to NJDOT staff from Materials and Region South-Construction.
- Identified, located, and lent civil service exam preparation materials to Major Access, Operations-Central Region, Operations-South Region, Planning, Project Management, Research, and Structural Evaluation.
- Sent latest issue of *Journal of Transport and Land Use* to Planners and to NJ Transit.
- Forwarded the latest Michigan DOT Research e-newsletter to Research.

- Sent notice of two Contoural webinars regarding records retention schedules to the Inspector General's Office and Records Management staff.
- Sent notice of University of South Florida Center for Urban Transportation Research webinar on Complete Streets to Planning.
- Forwarded other webinar notices to Planners, NJ Transit, Office of Emergency Management, Employee Safety, Construction, and Maintenance.
- Provided a list of titles on public speaking for Project Management and supplied several of the items from the NJ State Library's collection.
- Verified and obtained seven articles via interlibrary loan for Geotechnical Engineering.
- Resent two ASTM standards previously obtained via interlibrary loan to Materials.
- Sent a *Roads & Bridges* article with a poll at the end regarding changing the *Manual on Uniform Traffic Control Devices* (MUTCD) into two smaller documents to multiple units.
- Sent current issue of *HSDL Critical Releases in Homeland Security* to the Office of Emergency Management and to IT.
- Sent an *AASHTO Journal* article on environmental stewardship to Landscape Architecture, Environmental Resources, and Operations.
- Located an ITE publication on driveway guidelines and lent to Access Design.
- Identified an NCHRP publication for Quality Management Services, gave a print copy, and also sent link to the PDF.
- Sent an article on the proposed Gateway Tunnel project to Operations.
- Showed Project Management staff how to access the NJDOT *Roadway Design Manual* via the NJDOT website, updated our print copy with four Baseline Document Changes (BDCs), each containing multiple edits, and lent our updated print copy.
- Sent link to the PDF for a National Academies publication on urban sustainability to Planning.
- Submitted content for the SLA Transportation Division quarterly newsletter, *Kaleidoscope*.

Laurie:

- Gave away 4 boxes of extra materials as well as promotional items at the NJDOT Research Showcase.
- Hosted a TRB field visit to the Research Library and provided an extra copy of an NCFRP report.
- Identified and lent study material to Structural Evaluation.
- Sent link to an FHWA report to Maintenance-Region North.
- Lent AASHTO *LRFD Bridge Design Specifications*, 7th ed., with interim revisions to Structural & Railroad Engineering.
- Identified and located a 1979 planning book at the NJSL Law Library for Research.
- Located several editions of the NJDOT *Fact Book* and the NJDOT publication, *People: the Transportation Connection* and lent to Safety & Data Development.
- Lent a book from our collection to Structural Evaluation.
- Identified an NCHRP Web-only document, and sent link to Structural Evaluation.
- Lent the AASHTO *Manual for Bridge Evaluation*, 2010, with interim revisions to Structural Evaluation.

- Identified and lent civil service exam study materials to Capital Program Support, IT, Operations, Pavement & Drainage Management, Planning, Project Management, and Traffic Engineering.
- Lent NJDOT *Roadway Design Manual* to Planning.
- Lent AASHTO *Roadside Design Guide* to Structural & Railroad Engineering.
- Located and lent several AASHTO manuals and the 2002 NJDOT *Bridge Design Manual* to Roadway Design.
- Located and provided information to the Drug Enforcement Administration, NY Division, regarding truck stop / rest areas in New Jersey.

Both:

- Responded to a total of 188 requests, 176 (or 94%) of which were from NJDOT staff. The rest were from the NJ Dept. of Environmental Protection; the NJ State Library; NJ Transit; U.S. Drug Enforcement Administration (USDEA), New York Division; NASA Kennedy Space Center; Illinois DOT; Clemson University; Northern Arizona University; Round Rock Public Library (TX); and Wiss, Janney, Elstner Associates, Inc.
- The 98 reference requests and 90 document requests together resulted in provision of 66 loans, 22 documents, 8 photocopies, 5 printouts, and 87 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Laurie attended the 18th Annual NJDOT Research Showcase held at Mercer County Community College.
- Carol attended the online AASHTO Research Advisory Committee (RAC) TKN Task Force meeting.
- Laurie attended a *Library Journal* webcast, “Geeking Over Google and eBooks,” presented by Katrina Stokes, Warren County-Vicksburg (MS) Public Library and Andrea Devlin, Gale Virtual Reference Library.
- Carol attended the Board telephone meeting of the SLA Transportation Division and presented the treasurer’s report.
- Laurie attended the Transportation Librarians Roundtable, “Best Practices and Lessons Learned for Curating Physical and Digital Exhibits: A Case Study on the Northwestern University Transportation Library,” presented by Roberto Sarmiento and Rachel Cole, Northwestern University Transportation Library.
- Carol attended an ETKN telephone meeting.
- Laurie attended the Transportation Librarians Roundtable Data Management Series webinar, “Understanding Digital Object Identifiers (DOIs), Part 2” presented by Joan Starr of the California Digital Library.
- Carol attended the (end of) Research Bureau staff meeting.

c: Camille Crichton-Summers
 Amanda Gendek
 Doris Murphy
 Margaret Nizolek
 Stefanie Potapa
 Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT
November 2016
7510 - Research Library Operations

Critical Issues

- Space seems to be a Department topic again, and the Research Library space appears to be once again on the table.

New Initiatives

- Will suggest to webmaster et al. that the “Library” button under the Other section on the intranet be changed to “Research Library” and be moved under the Workplace Support section, two sections higher than its current location. We may need a better graphic.
- Ordering new materials for use by Statewide Planning and Traffic Engineering.

Significant Accomplishments

- Determined for Planning staff that an NJDOT legislatively mandated report is awaiting (since 2014) the Governor’s signature and is currently unavailable.
- Identified, located, and lent civil service exam preparation materials to Accounting, Construction, Maintenance, Materials, Operations, Planning, and Traffic Engineering.
- Sent *Construction Dive* newsletter article on drones to Project Management.
- Forwarded the National Operations Center for Excellence newsletter to Planning, Operations, and Transportation Systems Management (TSM).
- Sent notices of webinars to Administration (NJDOT Toastmasters members) and Civil Rights.
- Verified, located, and sent PDFs of TRB papers to NJ Transit.
- Informed Office of Emergency Management (OEM) of our TRB report holdings and ways to access.
- Sent notifications and links to AASHTO digital documents to the CFO, CPPM, and Planning.
- Located and obtained free access to symposium papers on ultra-high performance concrete via one of the conference Chairs, for Structural & Railroad Engineering, saving the \$150 purchase price for the proceedings.
- Sent a *Reuters* article on the Gateway Tunnel project to Maintenance.
- Sent a WRALTechWire.com article on drones to Aeronautics and Project Management.
- Forwarded a TRB e-circular on highway access management to Planning and Right-of-Way.
- Provided a list of reading for the supervisory test battery to Operations.
- Verified, located, and lent Professional Engineer (PE) exam study materials to Operations.

- Located a 1998 publication online and sent PDF link to Capital Program Support.
- Advised Environmental Resources regarding disposition of parts of their collection in Building 28.
- Provided justification for Structural & Railroad Engineering to complete form to request that IT install the Adobe plug-in for access to AASHTO digital documents.
- Downloaded several AASHTO digital publications for the Department's use by up to 5 simultaneous users and provided notice and access instructions to relevant units.

Laurie:

- Identified, located, and lent civil service exam study materials to Accounting & Auditing, Construction, Local Aid, Materials, Planning, and Research.
- Located a treatise, *New Jersey Zoning and Land Use Administration*, at the NJ State Law Library, and lent to Legislative, Administrative & Regulatory Actions.
- Lent the AASHTO *Manual for Bridge Evaluation*, 2nd edition and interim revisions to Structural Design and to Structural Evaluation.
- Identified and located books on highway and traffic engineering for Statewide Strategies.
- Lent the 1994 edition of the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals* to Structural & Railroad Engineering.
- Identified, located, and lent the "oldest AASHTO LRFD specification in collection," AASHTO LRFD Bridge Design, 1998 to Roadway Design.
- Identified and located PE exam study materials and lent to Pavement Design.
- Identified and located TOEFL study materials, and lent to Structural & Railroad Engineering.
- Located an NCHRP report for Quality Management Services.
- Located Fundamentals of Engineering (FE) exam study materials and lent to Structural Evaluation.
- Checked list of AASHTO materials offered by Transportation Association of Canada (TAC) against our holdings for needed items.
- Cataloged several donated study materials.
- Continued entering new publications from the Transportation Research Board e-newsletter into the Shared Resources Catalog and uploaded full text available items.

Both:

- Responded to a total of 142 requests, 124 (or 87%) of which were from NJDOT staff. The rest were from NJ Transit; Volpe Center; Illinois DOT; Iowa State University; Ohio University; University of Arkansas; University of Buffalo; University of Massachusetts-Amherst; and San Jose State University.
- The 66 reference requests and 76 document requests together resulted in provision of 55 loans, 20 documents, 3 printouts, and 64 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended the NJ State Library staff meeting.
- Carol attended an ETKN telephone meeting.
- Carol attended TESU training on professional Communications at the NJ State Library.

c: Camille Crichton-Summers

Amanda Gendek

Doris Murphy

Margaret Nizolek

Stefanie Potapa

Cindy Warrick

New Jersey Department of Transportation
RESEARCH LIBRARY MONTHLY REPORT

December 2016

7510 - Research Library Operations

Critical Issues

- Received email from Assistant Commissioner Dave Kuhn via Research asking about library use to supply to CFO who is questioning location of, or even need for, the Research Library. Usage statistics showed increased usage here in E&O, with more usage on 1st floor than on 5th. When shown usage numbers by his own staff, the CFO seems to have been mollified.
- The sub-application in the Shared Resources Catalog for uploading full text reports was not functional for awhile. We alerted IT - they have addressed the issue and it is once again working.
- IT's assistance has also been requested for the 2.63 upgrade of the OCLC Connexion Client for cataloging.

New Initiatives

- Received materials from Human Resources (NJDOT) on mentoring and leadership. We will incorporate into our collection.
- Will keep an eye out for availability of ASCE 7-16 (*Minimum Design Loads for Buildings and Other Structures*) and will order when published.
- Purchasing some new reference materials for use by Traffic Engineering.

Significant Accomplishments

- Supplied statistics comparing library use for three 12-month periods, one for our current location and each of the two previous locations – in chronological order, MOB, then E&O 5th floor, and current E&O 1st floor – to Research for use by CIPGA and the CFO.
- Answered follow-up questions from CFO regarding CFO divisions' use of the library.
- Completed *Selected Recent Acquisitions* list for 2016 2nd quarter, and Webmaster has posted to the internet and intranet websites.
- Located copies of the *Transportation Choices 2030* CD-ROM in Planning and provided to Administrative, Legislative, & Regulatory Actions.
- Sent UTRC report on evaluation of fatigue-prone details to Bridge Engineering and Maintenance/Operations.
- Located ASTM and CIE specifications for Operations.
- Lent latest issue of *Engineering-News Record* to Structural & Railroad Engineering.
- Located and lent an item from the collection for Structural Design.
- Sent an Illinois DOT press release on drones to Aeronautics and Project Management.
- Identified and located a free online course of supervisory training for Maintenance.

- Lent new mentoring materials received from HR to the NJDOT Toastmasters Club.
- Sent *Channel NewsAsia* article on drones guiding self-driving cars to Aeronautics, Transportation Systems Management (TSM), and Information Management & Technology Planning.
- Sent an AP article on a Finnish phone app to avoid wildlife accidents to Environmental Resources and Data Development & Safety.
- Sent an *Engineering-News Record* article on a new ARTBA safety training and certification program for work zones to Employee Safety, Construction, Maintenance, HR, Traffic Operations, and the Regions.
- Sent digital issue of *Erosion Control* magazine to staff in Operations, CPM, and Planning (Environmental Resources).
- Identified, located, and lent books on highway and traffic engineering for Planning.
- Forwarded latest issue of *InTransition* magazine to Planners, TSM, Data Development & Safety, and Landscape Architecture.
- Sent a phys.org article on rockfalls to Structural Design & Geotechnical Engineering.
- Located and lent AASHTO LRFD specifications for Structural & Railroad Engineering and provided photocopies of parts.
- Sent articles on carbon fiber concrete and 3D printing of concrete form molds and structural reinforcements to Bridge, Construction, and Materials.
- Identified, located, and lent project management materials to Planning.
- Forwarded November Michigan DOT *Innovation Snapshot* to Research.
- Identified, located, and lent the latest “Fitzgerald” to Multimodal Services.
- Sent a *Cantech Letter* article on drones to Aeronautics.
- Requested material via interlibrary loan for use by CPM staff.
- Identified, located, and lent FE (Fundamentals of Engineering) material to Project Management.
- Sent notices of webinars to PEs, Planners, IT, Construction, Materials, Pavement Design, Environmental Services (CPM), Statewide Planning, Environmental Resources, Maintenance/Operations, TSM, and NJ Transit.
- Identified, located, and lent civil service exam preparation materials to Maintenance, Major Access, Multimodal Services, Operations, Planning, Right-of-Way, and Structural Design.

Laurie:

- Identified, located, and lent civil service exam study materials to Data Development & Safety, IT, Project Management, Research, Right-of-Way, and Traffic Engineering.
- Lent materials to Structural & Railroad Engineering and explained how to access AASHTO digital documents.
- Identified, located, and lent two GIS books from our collection for use by Planning.
- Advised Planning that we have no access to the digital version of the “Green Book” and lent our print copy.
- Identified, located, and lent FE and PE materials to Construction, Pavement Design, Structural Evaluation, and TSM.

- Cataloged several newly acquired materials.
- Continued adding new TRB materials into Shared Resources Catalog.

Both:

- Responded to a total of 210 requests, 190 (or 90%) of which were from NJDOT staff. The rest were from the NJ State Library; NJDEP; a NJ resident; Minnesota DOT; North Carolina DOT; City College of New York; Florida Institute of Technology; Northern Arizona University; Southern Illinois University; Temple University; University of Buffalo; University of Kentucky; University of Wisconsin-Madison; and the Victorian Government Library (Australia).
- The 132 reference requests and 78 document requests together resulted in provision of 68 loans, 28 documents, 6 photocopies, 7 printouts, and 101 verbal or written replies. A separate spreadsheet is provided.

Meetings/Classes

- Carol attended an SLA webinar, *SLA Connect for Unit Leaders*, presented by David Stern and Kate O'Donnell of SLA.
- Carol attended a Transportation Librarians Roundtable webinar, *Visualizing Transportation Collections Using Tableau*, presented by Amanda Wilson and Nicole Strayhorn of the National Transportation Library.
- Carol attended a CIPGA Initiatives meeting.
- Laurie attended an ESRI webcast, *Imagery Management for DOTs*, presented by Terry Bills and Eric Rodenberg of ESRI.
- Carol attended an OCLC WorldShare ILL Borrowing webinar presented by Jeff Brunner of OCLC.
- Carol attended an AIIM webinar, *Key Areas Where Information Management is Advancing and Changing – A Look Ahead*, presented by John Mancini of AIIM.
- Laurie attended a *Library Journal* webcast, *An Indie State of Mind: Finding and Celebrating the Best Local Authors in Your State or Region*, presented by Jim Blanton of the Louisville Free Library, author Geralyn Hesslau Magrady, Denise Raleigh of the Gail Borden Public Library and RAILS, Veronda Pitchford of RAILS; and Jon Fine of Amazon.
- Carol attended the NJDOT Bureau of Research Brown Bag presentation, *Can a Drainage Management System Prevent Catastrophes?* by Dr. Jay Meegoda of NJIT.
- Carol attended a *Financial Training Webinar for Unit Leaders* presented by SLA staff and Marty Donnelly of Patuxent Accounting.

c: Camille Crichton-Summers
Amanda Gendek
Doris Murphy
Margaret Nizolek
Stefanie Potapa
Cindy Warrick

APPENDIX C
ANNUAL STATISTICS

NJDOT Research Library Statistics for CY 2016

Reporting to the NJ State Library

Month	Patron Contacts	Reference Questions	Items via Librarian	Pages Delivered	Free Searches	Fee Searches	Interlibrary Loan Borrowing	Interlibrary Loan Lending	Loans Outside of Horizon
January	87	83	139	170	75	5	1	0	9
February	99	85	160	454	56	21	8	7	11
March	107	94	126	1194	66	14	3	0	12
April	82	97	88	184	30	14	0	0	15
May	87	81	156	136	58	6	4	0	10
June	94	139	148	191	162	18	5	11	17
July	72	109	94	661	68	13	2	9	9
August	91	82	75	1065	35	5	0	5	5
September	124	107	140	1900	100	24	11	14	11
October	94	91	114	536	36	17	7	6	16
November	68	63	79	488	56	2	0	9	2
December	110	116	109	210	66	8	2	5	5
Totals	1115	1147	1428	7189	808	147	43	66	122

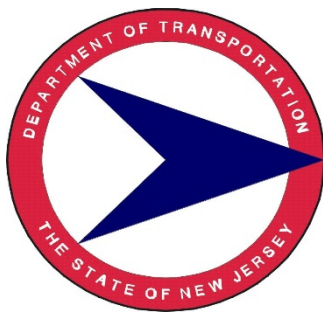
NJDOT Research Library Statistics for CY 2016

Reporting to NJDOT – by Requests

Month	Total Research Library Requests Received	Requestor Affiliation			Method of Contact					Service Requested		Service Provided					Quarterly Total Requests
		NJDOT	Other NJ	Out of State	In Person	Telephone	Email	Fax	US Mail	Reference Materials	Document / Interlibrary Loan	Verbal / Memorandum	Document	Loan / Interlibrary Loan	Photocopy	Printout	
January	195	188	3	4	143	6	47	0	0	93	103	71	22	98	1	3	
February	235	219	7	9	159	15	61	0	0	118	117	78	41	102	7	7	
March	199	185	8	6	122	4	73	0	0	122	77	77	49	56	10	7	
April	147	130	13	4	107	1	39	0	0	102	45	83	16	46	0	2	629
May	163	147	13	3	94	3	66	0	0	87	76	58	38	62	1	4	
June	267	245	10	12	162	21	84	0	0	153	114	154	15	92	3	3	
July	185	153	15	17	90	11	84	0	0	122	63	101	38	41	2	3	577
August	137	125	4	8	81	0	56	0	0	85	52	67	26	41	1	2	
September	262	233	8	21	141	16	105	0	0	140	122	125	25	93	3	6	
October	188	176	5	7	120	3	65	0	0	98	90	87	22	66	8	5	584
November	142	124	9	9	92	1	49	0	0	66	76	64	20	55	0	3	
December	210	190	7	13	112	9	89	0	0	132	78	101	28	68	6	7	
Total	2330	2115	102	113	1423	90	818	0	0	1318	1013	1066	340	820	42	52	540
																	2330

APPENDIX D

QUARTERLY REPORTS OF *SELECTED RECENT ACQUISITIONS*



**NJ DEPARTMENT OF
TRANSPORTATION RESEARCH
LIBRARY
*SELECTED RECENT ACQUISITIONS***

January - March 2016

The resources reported in this issue are listed by main subject area and then alphabetically by title. Each item is listed only once, so please check related subjects for additional materials that may be of interest. If you would like to see any of these items and there is no link to an online version, please contact the Research Library at library@dot.nj.gov (Library, DOT) or call 609-530-5289 for these or any other publications.

Administration and Management

Accomplishments 2015 /

Pennsylvania State Transportation Innovation Council (STIC) -- Harrisburg, PA :
Pennsylvania Dept. of Transportation, 2016, 20 pp.

At the Crossroads: Preserving Our Highway Investment /

John O'Doherty -- Okemos, MI : Michigan State University, National Center for Pavement
Preservation (NCP), 2007

Funding Resilient Infrastructure in New Jersey: Attitudes Following a Natural Disaster /

Robert B. Noland, Marc D. Weiner, and Michael R. Greenberg -- San Jose, CA : San Jose
State University, College of Business, Mineta National Transit Research Consortium, 2016-
02 (CA-MNTRC-15-1243), 60 pp.

[http://transweb.sjsu.edu/PDFs/research/1243-infrastructure-funding-attitudes-after-natural-
disaster-new-jersey.pdf](http://transweb.sjsu.edu/PDFs/research/1243-infrastructure-funding-attitudes-after-natural-disaster-new-jersey.pdf)

**An Inventory of Properties Owned by the New Jersey Department of Transportation for
Transportation Projects Not Under Construction - Report to the Governor and
Legislature /**

New Jersey Department of Transportation, Division of Right of Way & Access Management
and Division of Legislative, Administrative & Regulatory Actions -- Trenton, NJ : NJDOT,
2016-02 (Legislatively Mandated Reports), 116 pp.

Public Perception of Mileage-Based User Fees /

Asha Weinstein Agrawal, Hilary Nixon, and Ashley M. Hooper -- Washington, DC :
Transportation Research Board, 2016 (NCHRP Synthesis 487), 139 pp.
<http://www.trb.org/Publications/Blurbs/173605.aspx>

Revenue, Finance, Pricing, and Economics /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research
Record No. 2530), 123 pp. <http://www.trb.org/Publications/Blurbs/173742.aspx>

Aviation

ACRP 2015 Annual Report of Progress /

Airport Cooperative Research Program -- Washington, DC : Transportation Research Board, 2015 (Airport Cooperative Research Program), 68 pp.

<http://www.trb.org/Publications/Blurbs/173790.aspx>

Airport Terminal Building Energy Use Intensity (ATB-EUI) Benchmarking Tool [Electronic] /

Jeff S. Haberl et al. -- Washington, DC : Transportation Research Board, 2015 (CRP-CD-178 ; ACRP Web-Only Document 27), CD-ROM and Web-based document

<http://www.trb.org/Publications/Blurbs/173795.aspx>

Commercial Spaceports /

Transportation Research Board -- Washington, DC: TRB, 2015 (TR News No. 300 (November/December 2015)), 44 pp. <http://www.trb.org/Publications/Blurbs/173794.aspx>

Evaluating Methods for Determining Interior Noise Levels Used in Airport Sound Insulation Programs /

Paul Schomer, Jack Freytag, and Randy Waldeck -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 152), 150 pp

<http://www.trb.org/Publications/Blurbs/174142.aspx>

Synthesis of Information Related to Airport Practices /

Airport Cooperative Research Program -- Washington, DC: Transportation Research Board, 2016-01 (Research Results Digest 23), 9 pp.

<http://www.trb.org/Publications/Blurbs/173831.aspx>

Bicycles and Pedestrians

Bicycles and Motorcycles /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2520), 174 pp. <http://www.trb.org/Publications/Blurbs/173998.aspx>

Bicycling and Walking in the United States: 2016 Benchmarking Report /Alliance for Biking & Walking -- [Washington, DC] : The Alliance, 2016, 198 pp.

<http://www.bikewalkalliance.org/download-the-2016-benchmarking-report>

Buffalo Bicycle Master Plan Update - Final Report /

Jeff Olson et al. -- Buffalo, NY : GObike Buffalo ; Albany, NY : New York State Energy Research and Development Authority (NYSERDA) ; New York State Dept. of Transportation (NYSDOT), 2016-01 (15-34 ; C-13-51), 168 pp.

Incorporating On-Road Bicycle Networks into Resurfacing Projects /

Toole Design Group and Cambridge Systematics -- [Washington, DC] : U.S. Dept. of Transportation, Federal Highway Administration, 2016-03 (FHWA-HEP-16-025), 66 pp.

https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/

Pedestrians /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2519), 188 pp. <http://www.trb.org/Publications/Blurbs/174037.aspx>

Bridges and Structures

2016 Interim Revisions to the AASHTO LRFD Bridge Design Specifications - Seventh Edition 2014 - U.S. Customary Units [Looseleaf] /

American Association of State Highway and Transportation Officials -- Washington, DC : AASHTO, 2015, 195 pp.

Covered Bridges and the Birth of American Engineering /

Justine Christianson and Christopher H. Marston, executive editors ; James Barker et al. -- Washington, DC: National Park Service, Historic American Engineering Record, 2015, 246 pp. <http://permanent.access.gpo.gov/gpo64533/CoveredBridges2015.pdf>

Develop Epoxy Grout Pourback Guidance and Test Methods to Eliminate Thermal/Shrinkage Cracking at Post-Tensioning Anchorages - Phase II /

Irtishad Ahmad et al. -- Miami, FL : Florida International University, Dept. of Civil and Environmental Engineering and OHL School of Construction ; Tallahassee, FL : Florida Dept. of Transportation, Research Center, 2016-01 (FDOT BDV29-977-13), 113 pp. http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_STR/FDOT-BDV29-977-13-rpt.pdf

Extending Bridge Service Life Through Field Welded Repair and Retrofits /

Philip E. Fish, Curtis J. Schroeder, and Robert J. Connor -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 489), 65 pp. <http://www.trb.org/Publications/Blurbs/174111.aspx>

Hurricane Hazard Mitigation in Traffic Light Support Structures /

Aly Mousaad Aly, Hamzeh Gol Zaroudl, and Milad Rezaee -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development, 2016-01 (FHWA/LA.15/14-2TIRE), 108 pp. <http://www.ltrc.lsu.edu/pdf/2016/14-2TIRE.pdf>

Innovative Inspection Devices Help Extend Timber Bridge Life Spans: How Local Engineers Can Use State-of-the-Art Technology to Address Deterioration and Save Money /

Eruca Larsen and Renae Kuehl -- [St. Paul], MN : Minnesota Dept. of Transportation, 2015-11 (Research Pays Off), 3 pp. <http://onlinepubs.trb.org/onlinepubs/trnews/trnews300rpo.pdf>

Long-Term Bridge Performance (LTBP) Program Publications [CD-ROM] /

Turner-Fairbank Highway Research Center -- McLean, VA : Federal Highway Administration, 2015 (FHWA-HRT-10-058, HRT-11-037, HRT-13-033, HRT-13-035, HRT-13-049, HRT-13-051, HRT-14-019, HRT-14-031, HRT-14-032, HRT-14-043, HRT-14-052, HRT-14-053, HRT-15-050, HRT-15-073), Untitled disc contains brochure and multiple LTBP newsletters, reports, and TechBriefs

NDE Web Manual: An Interactive Resource on Nondestructive Evaluation (NDE) Technologies and Assessment Tools [Brochure] /

FHWA Advanced Sensing Technology (FAST) NDE Laboratory -- McLean, VA : Federal Highway Administration, Turner-Fairbank Highway Research Center, 2016 (FHWA-HRT-16-026), 4 pp. <https://fhwaapps.fhwa.dot.gov/ndep/>

Survey of Micropile Use in Neighboring Western States /

Steve Perkins -- Bozeman, MT : Montana State University, Dept. of Civil Engineering ; Helena, MT : Montana Dept. of Transportation, Research Programs, 2015-10 (FHWA/MT-15-004/8117-049), 43 pp.

http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/micropile/FINAL_REPORT.pdf

Communications

Fast Facts 2016 [Fact Sheet] /

Michigan Department of Transportation, Intermodal Policy Section -- Lansing, MI : MDOT, 2016, 4 pp. [https://www.michigan.gov/documents/mdot/MDOT_fastfacts02-](https://www.michigan.gov/documents/mdot/MDOT_fastfacts02-2011_345554_7.pdf)

[2011_345554_7.pdf](https://www.michigan.gov/documents/mdot/MDOT_fastfacts02-2011_345554_7.pdf)

Construction

Formwork for Concrete - 8th Edition /

David W. Johnston -- 8th edition -- Farmington Hills, MI : American Concrete Institute, 2014, various pagings

Energy and Environment

Assessment of Approaches to Updating the Social Cost of Carbon: Phase 1 Report on a Near-Term Update /

Committee on Assessing Approaches to Updating the Social Cost of Carbon; Board on Environmental Change and Society; Division of Behavioral and Social Sciences and Education; National Academies of Sciences, Engineering, and Medicine -- Washington, DC : National Academies Press, 2016, 73 pp. <http://www.nap.edu/21898>

Evaluation of Curb and Gutter Inlet Protection Products for Sediment Retention /

Rabin Bhattarai et al. -- Urbana, IL : University of Illinois at Urbana-Champaign, Dept. of Agricultural and Biological Engineering ; Springfield, IL : Illinois Dept. of Transportation (SPR), Bureau of Material and Physical Research, 2016-01 (FHWA-ICT-16-001), 45 pp. <https://apps.ict.illinois.edu/projects/getfile.asp?id=4726>

Wildlife Crossing: Web-Connected Cameras Offer Improved Monitoring for Highways [Fact Sheet] /

Exploratory Advanced Research Program -- Washington, DC: U.S. Dept. of Transportation, Federal Highway Administration, 2016 (FHWA-HRT-16-033), 2 pp.

<http://www.fhwa.dot.gov/advancedresearch/pubs/16033/16033.pdf>

Freight / Goods Movement

Commodity Flow Survey Workshop /

Kathleen Hancock, editor -- Washington, DC : Transportation Research Board, 2016-02 (Transportation Research Circular No. E-C205), 56 pp.

<http://onlinepubs.trb.org/onlinepubs/circulars/ec205.pdf>

Food Distribution Supply Chain Data Collection: Supply Chain Firm Interviews and Truck Counts /

Anne V. Goodchild and Luka Ukrainczyk -- Seattle, WA : University of Washington, Washington State Transportation Center (TRAC) ; Olympia, WA : Washington State Dept. of Transportation, Research Office, 2016-02 (WA-RD 850.1), 57 pp.
<http://www.wsdot.wa.gov/research/reports/fullreports/850.1.pdf>

Freight Facts and Figures 2015 /

William H. Moore, editor -- 11th edition -- Washington, DC : U.S. Dept. of Transportation, Bureau of Transportation Statistics, 2016, 99 pp.
http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/data_and_statistics/by_subject/freight/freight_facts_2015

GPS Data for Truck-Route Choice Analysis of Port Everglades Petroleum Commodity Flow /

Abdul R. Pinjari et al. -- Tampa, FL : University of South Florida, Dept. of Civil and Environmental Engineering ; Tallahassee, FL : Florida Dept. of Transportation, Research Center, 2016-01 (FDOT BDV25-977-17), 66 pp.
http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_PL/FDOT-BDV25-977-17-rpt.pdf

Implementation and Evaluation of a Low-Cost Weigh-In-Motion System /

Taek M. Kwon -- Duluth, MN : University of Minnesota Duluth, Dept. of Electrical Engineering ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-03 (MN/RC 2016-10), 47 pp. <http://www.dot.state.mn.us/research/TS/2016/201610.pdf>

Geotechnical

Influence of Geotechnical Investigation and Subsurface Conditions on Claims, Change Orders, and Overruns /

Andrew Z. Boeckmann and J. Erik Loehr -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 484), 38 pp., Appendix A and Appendix B are web-only
<http://www.trb.org/Publications/Blurbs/173907.aspx>

Testing Protocol for Predicting Driven Pile Behavior within Pre-bored Soil /

Malay Ghose-Hajra and Eduardo A. Tavera -- New Orleans, LA : University of New Orleans, Dept. of Civil and Environmental Engineering ; Baton Rouge, LA : Louisiana Dept. of Transportation and Development, 2016-02 (FHWA/LA.15/546), 179 pp.
http://www.ltrc.lsu.edu/pdf/2016/FR_546.pdf

Highway Design

Development of the ConnDOT Horizontal Curve Classification Software - Phase II /

Abigail Osei-Asamoah and Eric Jackson -- Storrs, CT : University of Connecticut, Connecticut Transportation Institute, Connecticut Transportation Safety Research Center ; Newington, CT : Connecticut Dept. of Transportation, Bureau of Engineering and Highway Operations, Research and Materials, 2015-02 (CT-2291-F-15-3), 49 pp.

Highway Design /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2521), 194 pp. <http://www.trb.org/Publications/Blurbs/174007.aspx>

Roadway Design Manual - 2015 [Looseleaf] /

New Jersey Department of Transportation -- Trenton, NJ : NJDOT, 2015, 468 pp.
<http://www.state.nj.us/transportation/eng/documents/RDM/>

Information Management

Digitizing and Formatting of Connecticut Department of Transportation Archived Technical Reports /

James Mahoney -- Storrs, CT : University of Connecticut, Connecticut Transportation Institute ; Newington, CT : Connecticut Dept. of Transportation, Bureau of Engineering and Construction, Research Unit, 2015-04 (CT-2275-F-15-5), 18 pp.

Uses of Mobile Information Technology Devices in the Field for Design, Construction and Asset Management /

Gabriel B. Dadi, Roy E. Sturgill, Jr., and Xi Wang -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 491), 101 pp.

Intelligent Transportation Systems (ITS)

Intelligent Transportation Systems and Connected and Automated Vehicles /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2489), 152 pp. <http://www.trb.org/Publications/Blurbs/173966.aspx>

ITS America: Intelligent Transportation Systems 25 Years Anniversary [Brochure] /

Intelligent Transportation Society of America -- Washington, DC : ITS America, 2015, trifold

Landscape and Urban Design

Shrub Willows Make for Effective, Inexpensive Snow Fences in Minnesota [Tech Summary] /

CTC & Associates -- St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-01 (2015-46TS), 2 pp.
<http://www.dot.state.mn.us/research/TS/2015/201546TS.pdf>

Legal Issues

Commercial Driver License Manual: Requirements for Licensing in New Jersey /New Jersey Motor Vehicle Commission -- [Trenton, NJ] : NJ MVC, 2015-08, 156 pp.
http://www.nj.gov/mvc/pdf/Commercial/CDL_Manual.pdf

Liability of Design-Builders for Design, Construction, and Acquisition Claims /

Michael C. Loulakis et al. -- Washington, DC : Transportation Research Board, 2015-12 (Legal Research Digest 68), 124 pp. <http://www.trb.org/Publications/Blurbs/173607.aspx>

A Look at the Legal Environment for Driverless Vehicles /

Dorothy J. Glancy, Robert W. Peterson, and Kyle F. Graham ; James B. McDaniel, editor -- Washington, DC : Transportation Research Board, 2016-02 (Legal Research Digest 69), 81 pp. <http://www.trb.org/Publications/Blurbs/173557.aspx>

Marine /Waterways

Enhancing Sleep Efficiency on Vessels in the Tug/Towboat Barge Industry /

Kathryn J. Reid, Fred W. Turek, and Phyllis C. Zee -- Washington, DC : Transportation Research Board, 2016 (NCFRP Report 36), 179 pp.
<http://www.trb.org/Publications/Blurbs/173857.aspx>

Materials

Concrete Materials /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2508), 110 pp. <http://www.trb.org/Publications/Blurbs/173678.aspx>

Performance Studies and Future Directions for Mixes Containing RAP and RAS: Technical Report /

Soohyok Im, Sheng Hu, and Fujie Zhou -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-02 (FHWA/TX-15/0-6738-2), 124 pp.
<http://tti.tamu.edu/documents/0-6738-2.pdf>

Supplementary Cementitious Materials: Best Practices for Concrete Pavements [Tech Brief] /

Federal Highway Administration -- Washington, DC : U.S. Dept. of Transportation, FHWA, 2016-02 (FHWA-HIF-16-001), 7 pp.
<https://www.fhwa.dot.gov/pavement/concrete/pubs/hif16001.pdf>

Validation of Guidelines for Evaluating the Moisture Susceptibility of WMA Technologies /

Amy Epps Martin et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 817), 33 pp. <http://www.trb.org/Publications/Blurbs/173821.aspx>

Operations and Maintenance

Bridge Trough Maintenance Evaluation on Finger Joint Bridges /

Eric Steinberg, Kenneth Walsh, and Nik Sparks -- Athens, OH : Ohio University, Dept. of Civil Engineering ; Columbus, OH : Ohio Dept. of Transportation, 2016-02 (FHWA/OH-2015/35), 45 pp.
<http://cdm16007.contentdm.oclc.org/cdm/ref/collection/p267401ccp2/id/13361>

Climate Change Adaptation Guide for Transportation Systems Management, Operations, and Maintenance /

Susan Asam et al. -- Reston, VA : Leidos ; Washington, DC : ICF International, Inc. ; U.S. Dept. of Transportation, Federal Highway Administration, 2015-11 (FHWA-HOP-15-026), 88 pp. <http://www.ops.fhwa.dot.gov/publications/fhwahop15026/index.htm>

Training and Certification of Highway Maintenance Workers /

Nancy Laffey and Kathryn A. Zimmerman -- Washington, DC : Transportation Research

Board, 2015 (NCHRP Synthesis 483), 124 pp.
<http://www.trb.org/Publications/Blurbs/173819.aspx>

Transportation System Resilience to Extreme Weather and Climate Change [Fact Sheet] /

Federal Highway Administration -- Washington, DC : U.S. Dept. of Transportation, Federal Highway Administration, 2015-11 (FHWA-HOP-15-025), 4 pp.
<http://www.ops.fhwa.dot.gov/publications/fhwahop15025/fhwahop15025.pdf>

Winter Highway Maintenance Operations: Connecticut /

James Mahoney et al. -- Rocky Hill, CT : Connecticut Academy of Science & Engineering ; Newington, CT : Connecticut Dept. of Transportation, 2015-07 (CT-2289-F-15-1), 220 pp.

Pavements

Alternatives to Seal Coats /

Braun Intertec Corporation -- St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, Local Roads Research Board (LRRB), 2016-02 (TRS 1602), 44 pp.
<http://www.dot.state.mn.us/research/TRS/2016/TRS1602.pdf>

Appropriate Implementation of Pavement Preservation Treatments /

Nick Vitillo et al. -- Piscataway, NJ : Rutgers University ; Trenton, NJ : New Jersey Dept. of Transportation, 2015-04 (FHWA-NJ-2015-011), 2 volumes - Volume 1: Final Report and Volume 2: Appendices Volume 1 -
<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-011-I.pdf> ; Tech Brief - <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-011-TB.pdf> ; Volume 2 - <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-011-II.pdf>

Continuous Friction Measurement Equipment As a Tool for Improving Crash Rate Prediction: A Pilot Study /

Edgar De Leon Izeppi et al. -- Blacksburg, VA: Virginia Tech Transportation Institute; Richmond, VA: Virginia Dept. of Transportation, 2016-01 (VTRC 16-R8), 42 pp.
http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r8.pdf

Converting Paved Roads to Unpaved /

Laura Fay et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 485), 88 pp. <http://www.trb.org/Publications/Blurbs/173716.aspx>

Development of DARWin-ME Design Guideline for Louisiana Pavement Design /

Zhong Wu and Danny X. Xiao -- Baton Rouge, LA : Louisiana Transportation Research Center ; Louisiana Dept. of Transportation and Development, 2016-01 (FHWA/LA.11/551), 202 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_551.pdf

Evaluate and Develop Innovative Pavement Repair and Patching: Taconite-Based Repair Options /

Lawrence M. Zanko, David M. Hopstock, and Will DeRocher -- Duluth, MN : University of Minnesota Duluth, Natural Resources Research Institute ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-01 (MN/RC 2016-03), 127 pp.
<http://www.dot.state.mn.us/research/TSI/2016/201603.pdf>

The Long-Term Pavement Performance Program - Summary of Key Benefits 1989-2015 [Brochure] /

Long-Term Pavement Performance Program -- Washington, DC : U.S. Dept of Transportation, Federal Highway Administration, 2016 (FHWA-HRT-16-013), 4 pp.
<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/16013/index.cfm>

Long-Term Pavement Performance Program Determination of In-Place Elastic Layer Modulus: Backcalculation Methodology and Procedures /

Harold L. Von Quintus, Chetana Rao, and Lynne Irwin -- Champagne, IL : Applied Research Associates, Inc. ; McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, Turner-Fairbank Highway Research Center, 2015-12 (FHWA-HRT-15-036), 177 pp.
<http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/15036/index.cfm>

LTPP InfoPave: Knowledge into Action - Performance Data for Pavement Innovation [Brochure] /

Long-Term Pavement Performance Program -- Washington, DC : U.S. Dept of Transportation, Federal Highway Administration, 2016 (FHWA-HRT-16-027), 4 pp.
<https://infopave.fhwa.dot.gov> ;
<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/16027/index.cfm>

LTPP InfoPave: Q&A [Brochure] /

Long-Term Pavement Performance Program -- Washington, DC : U.S. Dept. of Transportation, Federal Highway Administration, 2016 (FHWA-HRT-16-028), 2 pp.
<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/16028/index.cfm>

Pavement Management - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2523), 163 pp. <http://www.trb.org/Publications/Blurbs/173861.aspx>

Pavement Management - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2524), 159 pp. <http://www.trb.org/Publications/Blurbs/173860.aspx>

Pavement Management - Volume 3 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2525), 117 pp. <http://www.trb.org/Publications/Blurbs/173867.aspx>

Planning

Between Public and Private Mobility: Examining the Rise of Technology-Enabled Transportation Services /

Transportation Research Board, Committee for Review of Innovative Urban Mobility Services -- Washington, DC : TRB, 2016 (Special Report 319), 175 pp.
<http://www.trb.org/Publications/Blurbs/173511.aspx>

Data Methods to Understand Travel /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2526), 142 pp. <http://www.trb.org/Publications/Blurbs/173872.aspx>

Developing Countries /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2512), 121 pp. <http://www.trb.org/Publications/Blurbs/173679.aspx>

Dynamic Ride-Share, Car-Share, and Bike-Share and State-Level Mobility: Research to Support Assessing, Attracting, and Managing Shared Mobility Programs - Final Report /

Kristi Miller et al. -- College Station, TX: Texas A&M Transportation Institute; Austin TX: Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-02 (FHWA/TX-15/0-6818-1), 220 pp. <http://tti.tamu.edu/documents/0-6818-1.pdf>

Managing Performance and Assets; Freight Data and Visualization /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2529), 73 pp. <http://www.trb.org/Publications/Blurbs/173870.aspx>

Methodology for Linking Greenways and Trails with Public Transportation in Florida /

Sara Hendricks and Martin Catala -- Tampa, FL : University of South Florida, Center for Urban Transportation Research (CUTR), National Center for Transit Research ; Tallahassee, FL : Florida Dept. of Transportation, Research Center, 2016-02 (FDOT BDV26 TWO 977-03), 165 pp. http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_PTO/FDOT-BDV26-977-03-rpt.pdf

Network Modeling - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2497), 134 pp. <http://www.trb.org/Publications/Blurbs/173866.aspx>

Planning - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2500), 148 pp. <http://www.trb.org/main/blurbs/173967.aspx>

Review of the U.S. Global Change Research Program's Update to the Strategic Plan Document -Prepublication Copy /

National Academies of Sciences, Engineering, and Medicine, Committee to Advise the U.S. Global Change Research Program, Board on Atmospheric Sciences and Climate, and Board on Environmental Change and Society -- Washington, DC : National Academies Press, 2016, 89 pp. <http://www.nap.edu/catalog/23396/review-of-the-us-global-change-research-programs-update-to-the-strategic-plan-document>

Socioeconomics, Sustainability, Health, and Human Factors /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2531), 194 pp. <http://www.trb.org/Publications/Blurbs/173969.aspx>

Travel Behavior - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2495), 141 pp. <http://www.trb.org/Publications/Blurbs/173884.aspx>

Travel Demand Forecasting - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2493), 144 pp. <http://www.trb.org/Publications/Blurbs/173997.aspx>

Travel Demand Forecasting - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2494), 96 pp. <http://www.trb.org/Publications/Blurbs/173886.aspx>

Rail

Comparison of Passenger Rail Energy Consumption with Competing Modes /

TranSys Research Ltd. et al. -- Washington, DC : Transportation Research Board, 2015 (NCRRP Report 3), 197 pp., with CD-ROM
<http://www.trb.org/Publications/Blurbs/173718.aspx>

Rail: Moving America Forward - 2016 Transportation Research Board Annual Meeting - Reference Materials [CD-ROM] /

Federal Railroad Administration -- Washington, DC : U.S. Dept. of Transportation, FRA, 2016, 11 files in 3 folders

Reference

PE Civil Engineering Transportation Practice Exam /

NCEES -- Clemson, SC : NCEES Exam Publications, 2014, 95 pp.

Pocket Guide to Transportation, 2016 /

Bureau of Transportation Statistics -- Washington, DC : U.S. Dept. of Transportation, 2016-01, 59 pp. http://www.bts.gov/publications/pocket_guide_to_transportation/2016/

Six-Minute Solutions for Civil PE Transportation Depth Exam Problems - Fifth Edition /

Norman R. Voigt -- 5th edition -- Belmont, CA : Professional Publications, Inc., 2014, various pagings

State Transportation Statistics 2015 /

Bureau of Transportation Statistics -- Washington, DC : U.S. Dept. of Transportation, BTS, 2015, 130 pp. http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/STS_2015.pdf

Research

Continuing Project to Synthesize Information on Highway Practices /

Jon M. Williams et al. -- Washington, DC: Transportation Research Board, 2016-01 (Research Results Digest 398), 23 pp. <http://www.trb.org/main/blurbs/173793.aspx>

Data Management for Researchers: Organize, Maintain and Share Your Data for Research Success/

Kristin Briney -- Exeter, UK : Pelagic Publishing, 2015 (Research Skills Series), 191 pp.

LTRC Annual Research Program: Fiscal Year July 1, 2015 - June 30, 2016 /

Louisiana Transportation Research Center -- Baton Rouge, LA : Louisiana Dept. of Transportation and Development, LTRC, 2015, 228 pp.
http://www.ltrc.lsu.edu/pdf/2015/ltrc_15_16_awp.pdf

NCHRP 2015 Annual Report /

National Cooperative Highway Research Program -- Washington, DC: Transportation Research Board, 2015 (SP15), 51 pp. <http://www.trb.org/main/blurbs/173686.aspx>

Right-of-Way

Issues that Emerge When Public Entities Acquire a Real Property Interest in Rail Lines /

Charles A. Spitulnik et al. -- Washington, DC : Transportation Research Board, 2016-02 (Legal Research Digest 3), 38 pp. <http://www.trb.org/Publications/Blurbs/173929.aspx>

Safety & Human Performance

Assessment of the Performance of Light-Emitting Diode Roadway Lighting /

Ronald B. Gibbons, Yingfeng "Eric" Li, and Jason E. Meyer -- Blacksburg, VA : Virginia Tech Transportation Institute ; Richmond, VA : Virginia Dept. of Transportation, 2015-10 (VTRC 16-R6), 75 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r6.pdf

Automated Sidewalk Quality and Safety Assessment System - Final Report /

Randall Guensler et al. -- Atlanta, GA : Georgia Institute of Technology, School of Civil and Environmental Engineering ; Georgia Dept. of Transportation ; [Gainesville, FL : University of Florida], Southeastern Transportation Research, Innovation, Development, and Education Center (STRIDE), 2015-09 (STRIDE 2012-067S), 159 pp.

[http://stride.ce.ufl.edu/uploads/docs/STRIDE_2012-](http://stride.ce.ufl.edu/uploads/docs/STRIDE_2012-067S_automated_sidewalk_quality_and_safety_assessment_system_final_report_2015.pdf)

[067S_automated_sidewalk_quality_and_safety_assessment_system_final_report_2015.pdf](http://stride.ce.ufl.edu/uploads/docs/STRIDE_2012-067S_automated_sidewalk_quality_and_safety_assessment_system_final_report_2015.pdf)

A Benefit-Cost Analysis Tool for Assessing Guardrail Needs for Two-Lane Rural Roads in Virginia/

Justice Appiah and Benjamin H. Cottrell, Jr. -- Charlottesville, VA: Virginia Transportation Research Center; Richmond, VA: Virginia Dept. of Transportation, 2015-10 (FHWA/VTRC 16-R5), 44 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r5.pdf

Commercial Motor Vehicle Traffic Safety Facts [Fact Sheet] /

Federal Motor Carrier Safety Administration -- Washington, DC : U.S. Dept. of Transportation, FMCSA, 2014-04 (FMCSA-ADO-14-001), 2 pp.

https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/CMV%20Traffic%20Safety%20Facts_508.pdf

Development and Evaluation of Weak-Post W-Beam Guardrail in Mow Strips /

Scott K. Rosenbaugh et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; UTC Region VII, Mid-America Transportation Center ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2015-10 (TRP-03-322-15 ; MATC-UNL: 206), 236 pp.

Development of a Crashworthy Pedestrian Rail /

Karla A. Lechtenberg et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Madison, WI : Wisconsin Dept. of Transportation, 2016-01 (TRP-03-321-15), 464 pp.

Evaluation for School Bus Stop Sign Ahead Signs /

Bryan Katz et al. -- Gainesville, VA : Toxcel, LLC ; Dayton, OH : TEC Engineering, Inc. ; Columbus, OH : Ohio Dept. of Transportation, Research Section, 2016-02 (FHWA/OH-2016/1), 79 pp.

Highway Safety Manual - 1st Edition and Highway Safety Manual Supplement - Errata /

American Association of State Highway and Transportation Officials -- 1st edition -- Washington, DC : AASHTO, 2016-03, 108 pp. <http://downloads.transportation.org/HSM-1-M-Errata.pdf>

Human Performance, User Information, and Simulation /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2518), 129 pp. <http://www.trb.org/Publications/Blurbs/173968.aspx>

Information as a Source of Distraction /

Vaughan W. Inman, Mary Ann Bertola, and Brian H. Philips -- McLean, VA : Leidos ; Washington, DC : Federal Highway Administration, Manual of Uniform Traffic Control Devices Team, 2015-11 (FHWA-HRT-15-027), 142 pp. <http://www.fhwa.dot.gov/publications/research/safety/15027/15027.pdf>

Midwest Guardrail System (MGS) with an Omitted Post /

Jessica L. Lingenfelter et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2016-02 (TRP-03-326-16), 121 pp.

Occupant Restraint Use in 2014: Results from the NOPUS Controlled Intersection Study /

Timothy M. Pickrell, Eun-Ha Choi, and Shova KC -- Washington, DC : U.S. Dept. of Transportation, National Highway Traffic Safety Administration, Mathematical Analysis Division, National Center for Statistics and Analysis, 2016-02 (DOT HS 812 244), 30 pp. <http://www-nrd.nhtsa.dot.gov/Pubs/812244.pdf>

Performance Characteristics of Posts Embedded in Soil /

Brandt M. Humphrey et al. -- Lincoln, NE : University of Nebraska-Lincoln, Midwest Roadside Safety Facility (MwRSF) ; Region VII UTC, Mid-America Transportation Center ; Nebraska Dept. of Roads, 2015-08 (TRP-03-301-15 ; MATC-UNL: 057), 68 pp.

Pocket Guide to Large Truck and Bus Statistics, 2015 /

Federal Motor Carrier Safety Administration -- Washington, DC : U.S. Dept. of Transportation, FMCSA, Office of Analysis, Research and Technology, 2015-04, 55 pp. <http://www.fmcsa.dot.gov/safety/data-and-statistics/commercial-motor-vehicle-facts>

Safety Data, Analysis, and Evaluation /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2514), 186 pp. <http://www.trb.org/Publications/Blurbs/173742.aspx>

Safety Evaluation of Flashing Yellow Arrows for Protected/Permissive Left-Turn Control /

Kerrie L. Schattler, Eric Anderson, and Trevor Hanson -- Urbana, IL : University of Illinois at Urbana-Champaign, Dept. of Civil and Environmental Engineering, Illinois Center for Transportation ; Springfield, IL : Illinois Dept. of Transportation, Bureau of Material and Physical Research, 2016-03 (FHWA-ICT-16-010), 97 pp.

<https://apps.ict.illinois.edu/projects/getfile.asp?id=4814>

Safety Evaluation of Intersection Conflict Warning Systems (ICWS) [Tech Brief] /

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2016-02 (FHWA-HRT-15-076), 12 pp.

<https://www.fhwa.dot.gov/publications/research/safety/15076/index.cfm>

Safety Evaluation of Wet-Reflective Pavement Markings [Tech Brief] /

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2015-12 (FHWA-HRT-15-083), 8 pp.

<http://www.fhwa.dot.gov/publications/research/safety/15083/15083.pdf>

State Practices for Local Road Safety /

Seri Park et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 486), 298 pp. <http://www.trb.org/Publications/Blurbs/173789.aspx>

Traffic**Decision Support Systems for Transportation System Management and Operations (TSM&O) /**

Mohammed Hadi et al. -- Miami, FL : Florida International University, Lehman Center for Transportation Research ; Tallahassee, FL : Florida Dept. of Transportation, Office of Research and Development, 2015-12 (FDOT BDV29-977-09), 249 pp.

http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT-BDV29-977-09-rpt.pdf2

Developing a Method for Estimating AADT on All Louisiana Roads /

Xiaoduan Sun and Subasish Das -- Lafayette, LA : University of Louisiana at Lafayette, Dept. of Civil and Environmental Engineering ; Baton Rouge, LA : Louisiana Dept. of Transportation and Development, 2015-07 (FHWA/LA.14/548), 98 pp.

http://www.ltrc.lsu.edu/pdf/2015/FR_548.pdf

Evaluation of the Effectiveness of ATM Messages Used During Incidents /

Max Rindels, Stephen Zitzow, and John Hourdos -- Minneapolis, MN : University of Minnesota, Dept. of Civil, Environmental, and Geo-Engineering, Minnesota Traffic Observatory ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-01 (MN/RC 2016-04), 67 pp.

<http://www.dot.state.mn.us/research/TS/2016/201604.pdf>

Expanding Transportation Systems Management and Operations (TSM&O) from Planning to Construction Primer /

Hatem Abou-Senna, Essam Radwan, and Alex Navaro -- Orlando, FL : University of Central Florida, Dept. of Civil, Environmental & Construction Engineering, Center for Advanced Transportation Systems Simulation (CATSS) ; Tallahassee, FL : Florida Dept. of Transportation Research Center, 2015-12 (FDOT BDV24-977-08), 119pp.
http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT-BDV24-977-08-rpt.pdf

Freeway Operations; Regional Systems Management and Operations; Managed Lanes /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2484), 192 pp. <http://www.trb.org/Publications/Blurbs/173738.aspx>

Traffic Incident Management Quick Clearance Guidance and Implications /

Lance E. Dougald, Noah J. Goodall, and Ramkumar Venkatanarayana -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-02 (FHWA/VTRC 16-R9), 90 pp.
http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r9.pdf

Transit

Identifying Local Transit Resources for Evacuation /

Chester Wilmot et al. -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering Development ; Louisiana Dept. of Transportation and Development, 2015-12 (FHWA/LA.15/556), 125 pp.
http://www.ltrc.lsu.edu/pdf/2015/FR_556.pdf - Final Report
http://www.ltrc.lsu.edu/pdf/2014/capsule_14_4SS.pdf - Tech Summary

Independent Cost Estimates for Design and Construction of Transit Facilities in Rural and Small Urban Areas /

ICF International et al. -- Washington, DC : Transportation Research Board, 2015-12 (Research Results Digest 397), 55 pp. <http://www.trb.org/Main/Blurbs/173714.aspx>

Public Transportation: Management, Performance, and Quality of Service - Volume 3 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2535), 121 pp. <http://www.trb.org/Publications/Blurbs/173884.aspx>

Public Transportation: Marketing, Fare Policy and Transformative Data Trends-Volume 6

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2538), 109 pp. <http://www.trb.org/Publications/Blurbs/173970.aspx>

Public Transportation: Passenger Rail and Terminals - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2534), 115 pp. <http://www.trb.org/Publications/Blurbs/173741.aspx>

Public Transportation: Planning, Accessibility, and Parking - Volume 5 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2537), 184 pp. <http://www.trb.org/Publications/Blurbs/174039.aspx>

Public Transportation: Urban and Rural Bus Systems - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2533), 155 pp. <http://www.trb.org/Publications/Blurbs/173743.aspx>

The Role of Transit in Support of High Growth Business Clusters in the U.S. /

Glen Weisbrod, Derek Cuter, and Chandler Duncan -- [Boston, MA] : Economic Development Research Group, Inc. ; Washington, DC : American Public Transportation Association (APTA), 2013, 84 pp.

Work Zones

Field Guide on Installation and Removal of Temporary Traffic Control Devices for Safe Maintenance and Work Zone Operations /

American Traffic Safety Services Association -- Fredericksburg, VA : ATSSA, 2012-06, 19 pp., flipchart

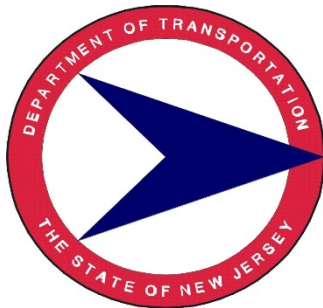
High Visibility Apparel in Work Zones: Characteristics of High-Visibility Safety Apparel /

American Traffic Safety Services Association -- Fredericksburg, VA : ATSSA, 2012-06, 19 pp., flipchart

Work Zone Safety Performance Measures for Virginia /

Young-Jun Kweon, In-Kyu Lim, and Michael D. Fontaine -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-03 (VTRC 16-R10), 52 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r10.pdf

1ST Quarter 2016, Acquisitions, page 16 of 16



**NJ DEPARTMENT OF
TRANSPORTATION RESEARCH
LIBRARY
*SELECTED RECENT ACQUISITIONS***

April - June 2016

The resources reported in this issue are listed by main subject area and then alphabetically by title. Each item is listed only once, so please check related subjects for additional materials that may be of interest. If you would like to see any of these items and there is no link to an online version, please contact the Research Library at library@dot.nj.gov (Library, DOT) or call 609-530-5289 for these or any other publications.

Administration and Management

Assessing the Costs Attributed to Project Delay During Project Pre-Construction Stages /

Curtis Beaty et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-03 (FHWA/TX-15/0-6806-FY15 WR#3), 60 pp. <http://tti.tamu.edu/documents/0-6806-FY15-WR3.pdf>

The Cost of Roadway Construction, Operations and Maintenance in New Jersey - Phase 1 Final Report /

Jon Carnegie -- [New Brunswick, NJ] : Rutgers, the State University of New Jersey, Alan M. Voorhees Transportation Center ; Trenton, NJ : New Jersey Dept. of Transportation, 2016-05 (NJ-2016-003), 53 pp. <http://www.state.nj.us/transportation/refdata/research/reports/NJ-2016-003.pdf>

Effective Project Scoping Practices to Improve On-Time and On-Budget Delivery of Highway Budgets /

Stuart Anderson et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 821), various pagings <http://www.trb.org/Publications/Blurbs/173953.aspx>

Guidance on Extracting Value from TxDOT's Land Holdings /

Jolanda Prozzi et al. -- Austin, TX : University of Texas at Austin, Center for Transportation Research ; Texas Dept. of Transportation, Research and Technology Implementation Office, 2012-07 (FHWA/TX- 12/0-6634-1), 487 pp. http://ctr.utexas.edu/wp-content/uploads/pubs/0_6634_1.pdf

Highway Robbery II /

David Kusnet -- Sacramento, CA : National Association of State Highway and Transportation Unions (NASHTU), 2007-05, 43 pp. <http://nashtu.us/wp-content/uploads/2014/07/Highway-Robbery-II.pdf>

Life-Cycle Cost Analysis for Management of Highway Assets /

Aimee Flannery, Jessica Manns, and Marie Venner -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 494), 35 pp.
<http://www.trb.org/Publications/Blurbs/174369.aspx>

The Simple Guide to Succession Planning - Part 1: Competency Isn't a Four-Letter Word /

Cornerstone OnDemand, Inc. -- Santa Monica, CA : Cornerstone OnDemand, 2014 (Succession Planning Toolkit ; Part 1: Establishing Competencies), 13 slides <http://825d0007e19cfb8330f5-793aa0e2839afb9a40b9a46376ed589.r13.cf1.rackcdn.com/csod-cp-succession101-highered-statelocal.pdf>

Aviation

Airport Safety Risk Management Panel Activities and Outcomes /

Manuel Ayres, Jr. and Allen Parra -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 71), 120 pp. <http://www.trb.org/Publications/Blurbs/174359.aspx>

Airport Sustainability Practices - Drivers and Outcomes for Small Commercial and General Aviation Airports /

C. Daniel Prather -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 69), 108 pp. <http://www.trb.org/Publications/Blurbs/174223.aspx>

Aviation /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2569), 87 pp. <http://www.trb.org/Publications/Blurbs/174527.aspx>

Building Information Modeling for Airports /

Tamera L. McCuen and Dominique M. Pittenger -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 70), 86 pp. <http://www.trb.org/Publications/Blurbs/174386.aspx>

Developing a Business Case for Renewable Energy at Airports /

Stephen B. Barrett et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 151), various pagings, includes CD-ROM
<http://www.trb.org/Publications/Blurbs/173592.aspx>

The Fourth Amendment and Airports /

Jodi L. Howick -- Washington, DC: Transportation Research Board, 2016-04 (Legal Research Digest 27), 46 pp. <http://www.trb.org/Publications/Blurbs/174240.aspx>

Guidebook for IROPS Stakeholder Communication & Coordination /

Barbara Cogliandro et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 153), various pagings, includes CD-ROM
<http://www.trb.org/Publications/Blurbs/174234.aspx>

Guidebook for Managing Compliance with Federal Regulations: An Integral Approach /

Aviation Management Consultant Group, Inc. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 156), 54 pp., includes CD-ROM
<http://www.trb.org/Publications/Blurbs/174389.aspx>

Public-Sector Aviation: Graduate Research Award Papers, 2016 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2600), 111 pp. <http://www.trb.org/Publications/Blurbs/174355.aspx>

Water Efficiency Management Strategies for Airports /

Richard A. Krop et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 154), 134 pp., includes CD-ROM <http://www.trb.org/Publications/Blurbs/174444.aspx>

Bicycles and Pedestrians

Bike Share Station Siting Guide /

National Association of City Transportation Officials -- [New York] : NACTO, 2016, 74 pp. http://nacto.org/wp-content/uploads/2016/04/NACTO-Bike-Share-Siting-Guide_FINAL.pdf

Urban Bikeway Design Guide /

National Association of City Transportation Officials -- 2nd edition -- Washington, DC : Island Press, 2014, 242 pp.

The Value of Cycling /

Fiona Rajé and Andrew Saffrey -- Birmingham, UK: Phil Jones Associates; University of Birmingham, Department for Transport, 2016, 36 pp. https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/509587/value-of-cycling.pdf

Bridges and Structures

Calibration of Region-Specific Gates Pile Driving Formula for LRFD /

Eduardo A. Tavera et al. -- Baton Rouge, LA : GeoStellar Engineering, LLC ; Louisiana Dept. of Transportation and Development, 2016-05 (FHWA/LA.16/561), 566 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_561.pdf

The Economy of Preventive Maintenance of Concrete Bridges /

Riyad S. Aboutaha and Haotian Zhang -- Syracuse, NY : Syracuse University, Dept. of Civil and Environmental Engineering ; New York : City College of New York, University Transportation Research Center (UTRC) - Region 2, 2016-03, 212 pp. <http://www.utrc2.org/sites/default/files/Economy-of-Preventive-Maintenance.pdf?>

Evaluation of Bridge Deck with Shrinkage-Compensating Concrete /

Harikrishnan Nair, Celik Ozyildirim, and Michael M. Sprinkel -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-04 (FHWA/VTRC 16-R15), 31 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r15.pdf

Integral Abutment Bridge for Louisiana's Soft and Stiff Soils /

George A. Voyiadjis, Steve Cai, and Khalid Alshibi -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development ; Louisiana Transportation Research Center, 2016-03 (FHWA/LA.13/517), 225 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_517.pdf

Investigation of the Effect of Speed on the Dynamic Impact Factor for Bridges with Different Entrance Conditions /

Yaohua Deng and Brent M. Phares -- Ames, IA : Iowa State University, Bridge Engineering Center ; Iowa Dept. of Transportation, 2016-05 (InTrans Project 14-521), 51 pp.

http://www.intrans.iastate.edu/research/documents/research-reports/dynamic_impact_factor_for_bridge_entrances_w_cvr.pdf

Iowa's Bridge and Highway Climate Change and Extreme Weather Vulnerability Assessment Pilot /

Chris Anderson, David Claman, and Ricardo Mantilla -- Ames, IA : Iowa State University, Institute for Transportation ; Iowa Dept. of Transportation, 2015-03 (HEPN-707 ; InTrans Project 13-484), 61 pp.

http://www.fhwa.dot.gov/environment/climate_change/adaptation/resilience_pilots/2013-2015_pilots/iowa/iowapilot.pdf

Repair of Morganza Spillway Bridge Bent Pile Cap Using Carbon Fiber Reinforcement (CFR) /

Vijaya Gopu and P.N. Balaguru -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development ; Louisiana Transportation Research Center, 2016-04 (FHWA/LA.15/552), 59 pp.

http://www.ltrc.lsu.edu/pdf/2016/FR_552.pdf

Synthesis on Cost-Effectiveness of Extradosed Bridges - Technical Report /

Jiong Hu, Yoo Jae Kim, and Soon-Jae Lee -- San Marcos, TX : Texas State University-San Marcos ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-03 (FHWA/TX-12/0-6729-1), 192 pp. <http://tti.tamu.edu/documents/0-6729-1>

Use of Electrochemical Chloride Extraction and Associated Repairs to Extend the Beneficial Life of Reinforced Concrete Substructures /

Stephen R. Sharp -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-05 (FHWA/VTRC 16-R16), 68 pp.

http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r16.pdf

Use of Lightweight Concrete for Reducing Cracks in Bridge Decks /

Harikrishnan Nair, Celik Ozyildirim, and Michael M. Sprinkel -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-04 (FHWA/VTRC 16-R14), 23 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r14.pdf

Construction

Construction Stormwater Field Guide [Looseleaf] /

American Association of State Highway and Transportation Officials, Center for Environmental Excellence -- Washington, DC : AASHTO ; U.S. Dept. of Transportation, Federal Highway Administration, 2016-04, 94 pp., flipchart

Field Evaluation of Roller Integrated Intelligent Compaction Monitoring /

Gavin P. Gautreau, Murad Abu-Farsakh, and Samuel B. Cooper, III -- Baton Rouge, LA : Louisiana Dept. of Transportation and Development, Louisiana Transportation Research Center, 2016-04 (FHWA/LA.15/555), 520 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_555.pdf

Energy and Environment

Attribution of Extreme Weather Events in the Context of Climate Change /

National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Extreme Weather Events and Climate Change Attribution -- Washington, DC : National Academies Press, 2016, 186 pp. <http://www.nap.edu.edu/21852>

Demonstrating Electric Vehicles in Buffalo CarShare /

Michael Galligano and Bryan Roy -- Albany, NY : New York State Energy Research and Development Authority (NYSERDA) and New York State Dept. of Transportation (NYSDOT), 2015-08 (NYSERDA Report 15-27), 40 pp. <https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/NYSERDA%20Report%2015-27.pdf>

Drive Electric Vermont Case Study /

Fred Wagner et al. -- Idaho Falls, ID: Idaho National Laboratory; U.S. Dept. of Energy, Office of Nuclear Energy, 2016-03 (INL/EXT-16-38077), 43 pp. <https://avt.inl.gov/sites/default/files/pdf/evse/DriveElectricVermontCaseStudyMarch2016.pdf>

Effects of Backcountry Aviation on Deer (*Odocoileus spp.*) Stress Physiology /

Devin W. Landry and F. Richard Hauer -- Missoula, MT : University of Montana, Center for Integrated Research on the Environment ; [Helena, MT] : Montana Dept. of Transportation, Research Programs, 2016- 03 (FHWA/MT-16-001/8117-44), 24 pp. http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/backcountry_air/Final_Report.pdf

Emissions Associated with Electric Vehicle Charging: Impact of Electricity Generation Mix, Charging Infrastructure Availability, and Vehicle Type /

Joyce McLaren et al. -- Golden, CO : U.S. Dept. of Energy, National Renewable Energy Laboratory, 2016- 04 (NREL/TP-6A20-64852), 34 pp. http://www.afdc.energy.gov/uploads/publication/ev_emissions_impact.pdf

Evaluation and Assessment of Environmentally Sensitive Stream Bank Protection Measures /

P.F. Lagasse et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 822), various pagings, includes CD-ROM <http://www.trb.org/Publications/Blurbs/174448.aspx>

Pervious Concrete Physical Characteristics and Effectiveness in Stormwater Pollution Reduction /

Say Kee Ong et al. -- Ames, IA : Iowa State University, Institute for Transportation ; Midwest Transportation Center, 2016-04 (InTrans Project Reports ; Paper 197), 59 pp. http://njdotintranetr.njdot.lan/employee_support/Bookstore_Repository/17689-1988-pervious_concrete_in_stormwater_pollution_reduction_w_cvr.pdf

Wayne County, NY, Municipal Vehicle Retrofit Project - Final Report /

Carol Zimmerlin and Ram Shrivastava -- Rochester, NY : Larsen Engineers ; Albany, NY : New York State Energy Research and Development Authority (NYSERDA); New York State Dept. of Transportation, 2015- 07 (C-10-20), 30 pp.

https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/C-10-20%20-%20Final%20Report_8-2015.pdf

Freight / Goods Movement

Methodology for Estimating the Value of Travel Time Reliability for Truck Freight System Users /

Ira Hirschman et al. -- Washington, Dc : Transportation Research Board, 2016 (NCHRP Report 824), 96 pp. <http://www.trb.org/Publications/Blurbs/174297.aspx>

Oversize/Overweight Public Documentation Benchmarking and Effectiveness Study /

Christopher Titze and Brian Stewart -- New York : Cambridge Systematics ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2015-08 (NJ-2015-005), 33 pp.

<http://www.state.nj.us/transportation/refdata/research/reports/NJ-2015-005.pdf> - full report ;

<http://www.state.nj.us/transportation/refdata/research/reports/NJ-2015-005-TB.pdf> - Tech Brief

Why Goods Movement Matters: Strategies for Moving Goods in Metropolitan Areas /

Richard Barone, Emily Roach, and Ben Oldenburg -- New York : Regional Plan Association (RPA) ; Goteborg, Sweden : Volvo Research and Educational Foundations (VREF), 2016-06, 28 pp. <http://library.rpa.org/pdf/Why-Goods-Movement-Matters-ENG.pdf>

Geotechnical

Geosynthetic Reinforced Steep Slopes /

Yoo Jae Kim et al. -- San Marcos, TX : Texas State University, Dept. of Engineering Technology ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-03 (FHWA/TX-14/0-6792-1), 184 pp.

<http://tti.tamu.edu/documents/0-6792-1.pdf>

Guidelines for Certification and Management of Flexible Rockfall Protection Systems /

Ben Arndt et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 823), 23 pp. <http://www.trb.org/Publications/Blurbs/174388.aspx>

Principles of Foundation Engineering /

Braja M. Das -- 8th edition -- Boston, MA : Cengage Learning, 2016, 919 pp.

Highway Design

Roundabout Practices /

Alek Pochowski, Andy Paul, and Lee Rodegerdts -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 488), 81 pp.

<http://www.trb.org/Publications/Blurbs/174181.aspx>

History

The Hackensack River Vertical Lift Bridges Historic District: Engineering, Navigation and Commerce in the Port of New York /

Glenn R. Modica -- [Cranbury, NJ] : Richard Grubb & Associates, Inc. (RGA) ; Trenton, NJ : New Jersey Dept. of Transportation ; [s.l.] : Jacobs Engineering Group, Inc., 2016-01, 38 pp.
<http://www.state.nj.us/transportation/works/environment/pdf/hackensackriververtliftbridgeshistdist.pdf>

Human Resources

Developing a National STEM Workforce Strategy: A Workshop Summary /

Joe Alper, rapporteur -- Washington, DC: National Academies Press, 2016, 160 pp.
<http://www.nap.edu/21900>

Management Test Battery (MTB) /

National Learning Corporation -- Syosset, NY : NLC, 2016 (Career Examination Series ; C-4483), various pages

Promising Practices for Strengthening the Regional STEM Workforce Development Ecosystem /

National Academies of Sciences, Engineering, and Medicine, Board on Higher Education and Workforce, Committee on Improving Higher Education's Responsiveness to STEM Workforce Needs: Identifying Analytical Tools and Regional Best Practices; Policy and Global Affairs -- Washington, DC : National Academies Press, 2016, 152 pp. <http://www.nap.edu/21894>

Information Management

10 Best Practices for Archiving - a White Paper sponsored by Quest Software /

Stephen Foskett -- Mountain View, CA : Contoural, Inc., 2007, 15 pp.

Atlas of Knowledge: Anyone Can Map /

Katy Borner -- Cambridge, MA : MIT Press, 2015, 211 pp.

How to Begin Addressing the Paper-to-Digital Challenge: The Future of Records Management Is All Digital, All Day - Whitepaper /

Iron Mountain, Inc. -- [Boston, MA] : Iron Mountain, 2013, 7 pp.
http://www.ironmountain.com/~media/Files/Iron%20Mountain/Knowledge%20Center/Reference%20Library/White%20Paper/H/How_to_Begin_Addressing_the_Paper_to_Digital_Challenge.pdf

Seven Essential Strategies for Effective Archiving /

Contoural, Inc. -- Los Altos, CA : Contoural, 2012, 11 pp.

Ten Essential Elements of a Successful Electronic Records Retention and Destruction Program - White Paper /

Contoural, Inc. -- Mountain View, CA : Contoural, 2008, 9 pp.

What to Do With Legacy Data?: Five Steps for Managing, Controlling and Deleting Legacy Data /

Contoural, Inc. -- Mountain View, CA : Contoural, 2010, 12 pp.

Intelligent Transportation Systems (ITS)

Conceptual Design of a Connected Vehicle Wrong-Way Driving Detection and Management System /

Melisa D. Finley et al. -- College Station, TX: Texas A&M Transportation Institute; Austin, TX: Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-04 (FHWA/TX-16/0-6867-1), 214 pp. <http://tti.tamu.edu/documents/0-6867-1.pdf>

Introduction of Cooperative Vehicle-to-Infrastructure Systems to Improve Speed Harmonization /

David Hale et al. -- Reston, VA: Leidos, Inc. ; McLean, VA : Federal Highway Administration, Office of Operations Research and Development, 2016-03 (FHWA-HRT-16-023), 54 pp. <http://www.fhwa.dot.gov/publications/research/operations/16023/16023.pdf>

Landscape and Urban Design

Wild by Design: Strategies for Creating Life-Enhancing Landscapes /

Margie Ruddick -- Washington, DC: Island Press, 2016, 243 pp.

Marine / Waterways

Master Plan for the Gulf Intracoastal Waterway in Texas /

Texas Department of Transportation -- Austin, TX: Texas Dept. of Transportation, 2016-03, 36 pp. <http://d2dtl5nnlpfr0r.cloudfront.net/tti.tamu.edu/documents/0-6807-1-booklet.pdf>

Materials

Comparing the Volumetric and Mechanical Properties of Laboratory and Field Specimens of Asphalt Concrete /

Louay N. Mohammad et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 818), 77 pp. <http://www.trb.org/Publications/Blurbs/173797.aspx>

Design and Control of Concrete Mixtures /

Steven H. Kosmatka and Michelle L. Wilson -- 16th edition -- Skokie, IL : Portland Cement Association, 2016, 615 pp.

Development of Performance-Based Specifications for Louisiana Asphalt Mixtures /

Louay N. Mohammad, Minkyum Kim, and Harshavardhan Challa -- Baton Rouge, LA: Louisiana State University, Louisiana Transportation Research Center ; Louisiana Dept. of Transportation and Development, 2016-02 (FHWA/LA.14/558), 149 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_558.pdf

Draft Test Protocols for PFC's in TxDOT Format [Tech Summary]/

Tom Scullion -- College Station, TX : Texas A&M Transportation Institute, 2016-03 (0-6741-P1), 5 pp. <http://d2dtl5nnlpfr0r.cloudfront.net/tti.tamu.edu/documents/0-6741-P1.pdf>

The Effect of WMA on RAP in Hot Mix Asphalt (WHMA) /

Thomas Bennert -- Piscataway, NJ : Rutgers University ; Trenton, NJ : New Jersey Dept. of Transportation, 2015-09 (FHWA-NJ-2015-009), 79 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-009.pdf> - full report ; <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-009-TB.pdf> - Tech Brief

Improving Mixture Durability through Design Gyration, Air Voids, and Binder Content /

Samer W. Katicha and Gerardo W. Flintsch -- Blacksburg, VA : Virginia Tech Transportation Institute ; Richmond, VA : Virginia Dept. of Transportation ; Charlottesville, VA : Virginia Transportation Research Council, 2016-04 (VTRC 16-R17), 48 pp.
http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r17.pdf

New Laboratory Design Tools and Field Performance Monitoring Equipment for Permeable Friction Courses /

Tom Scullion et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-03 (FHWA/TX-15/0-6741-1), 76 pp. <http://tti.tamu.edu/documents/0-6741-1.pdf>

Performance Evaluation of Louisiana Superpave Mixtures /

Louay N. Mohammad, Zhong Wu, and Amar Raghavendra -- Baton Rouge, LA : Louisiana Transportation Research Center, 2008-12 (FHWA/LA.06/410), 164 pp.

Performance Evaluation of Subgrade Stabilization with Recycled Materials /

Nishantha Bandara, Elin Jensen, and Tarik H. Binoy -- Southfield, MI : Lawrence Technological University, Dept. of Civil and Architectural Engineering ; Lansing, MI : Michigan Dept. of Transportation, Research Administration, 2016-02 (RC-1635), 201 pp., appendices separate file
http://www.michigan.gov/documents/mdot/RC-1635_REPORT_522701_7.pdf ;
http://www.michigan.gov/documents/mdot/RC-1635_APPENDICES_522703_7.pdf

Performance Specifications for Asphalt Mixtures /

Leslie Myers McCarthy et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 492), 92 pp. <http://www.trb.org/Publications/Blurbs/174562.aspx>

Testing and Analysis of LWT and SCB Properties of Asphalt Concrete Mixtures /

Samuel B. Cooper III, William "Bill" King, and Md Sharear Kabir -- Baton Rouge, LA : Louisiana Dept. of Transportation and Development, 2016-04 (FHWA/LA/536), 71 pp.
http://www.ltrc.lsu.edu/pdf/2016/FR_536.pdf

Operations and Maintenance

Effects of Overweight Vehicles on New York State DOT Infrastructure /

Michel Ghosn et al. -- New York: City University of New York, City College of New York, Dept. of Civil Engineering; Albany, NY: NYS Dept. of Transportation, 2015-09 (C-08-13), 192 pp. https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/C-08-13%20Final%20Report_Sept%202015.pdf

Maintenance Stormwater Field Guide [Looseleaf] /

American Association of State Highway and Transportation Officials, Center for Environmental Excellence -- Washington, DC : AASHTO ; U.S. Dept. of Transportation, Federal Highway Administration, 2016-04, 65 pp., flipchart

Pavements

Alternate Design Methods to Renew Lightly Traveled Paved Roads /

Charles Jahren, Jianhua "Jake" Yu, and R. Christopher Williams -- Ames, IA : Iowa State University, Institute for Transportation ; St. Paul, MN : Minnesota Dept. of Transportation,

Research Services & Library, 2016-03 (MN/RC 2016-14), 71 pp.
<http://www.dot.state.mn.us/research/TS/2016/201614.pdf>

An Economic Analysis of Four Options for Dealing with Low-Volume Roads in Energy-Impacted Areas of Texas /

William Stockton et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX: Texas Dept. of Transportation, 2016-03 (FHWA/TX-15/0-6806-TTI-1), 36 pp.
<http://tti.tamu.edu/documents/0-6806-TTI-1.pdf>

Evaluate Methodology to Determine Localized Roughness /

Emmanuel G. Fernando and Roger S. Walker -- College Station, TX : Texas A&M Transportation Institute; Arlington, TX : University of Texas at Arlington ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-03 (FHWA/TX-14/0-6610-2), 68 pp. <http://tti.tamu.edu/documents/0-6610-2.pdf>

Evaluation of the Fatigue and Toughness of Fiber Reinforced Concrete for Use as a New Highway Pavement Design /

John Kevern et al. -- Baton Rouge, LA : Louisiana Dept. of Transportation and Development ; Louisiana Transportation Research Center, 2016-04 (FHWA/LA.15/559), 74 pp.
http://www.ltrc.lsu.edu/pdf/2016/FR_559.pdf

MEPDG Traffic Loading Defaults Derived from Traffic Pooled Fund Study /

O.I. Selezneva et al. -- Elkridge, MD : Applied Research Associates, Inc. ; McLean, VA : Federal Highway Administration, Office of Infrastructure Research and Development, 2016-04 (FHWA-HRT-13-090), 206 pp.
<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/13090/index.cfm>

Pavement Structural Evaluation at the Network Level /

Turner-Fairbank Highway Research Center, Research Development and Technology -- McLean, VA ; U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2016-03 (FHWA-HRT-15-075), 12 pp.
<http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/15075/15075.pdf>

Tack Coat Best Practices [Tech Brief] /

Federal Highway Administration, Office of Asset Management, Pavements, and Construction -- Washington, DC : U.S. Dept. of Transportation, FHWA, 2016-04 (FHWA-HIF-16-017), 17 pp. <http://www.fhwa.dot.gov/pavement/asphalt/pubs/hif16017.pdf>

Planning

Complete Streets News /

Smart Growth America -- Washington, DC : Smart Growth America, 2009--, e-newsletter
<https://smartgrowthamerica.org/tag/complete-streets-news/>

Developing Countries /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2581), 173 pp. <http://www.trb.org/Publications/Blurbs/174330.aspx>

The End of Automobile Dependence: How Cities are Moving Beyond Car-Based Planning /
Peter Newman and Jeffrey Kenworthy -- Washington, DC : Island Press, 2015, 300 pp.

Fostering Livable Communities Newsletter /

Federal Highway Administration, Office of Planning, Environment, & Realty (HEP) -- Washington, DC :
U.S. Dept. of Transportation, FHWA, 2012--, e-newsletter
<http://www.fhwa.dot.gov/livability/newsletter/>

Generated Traffic and Induced Travel: Implications for Transport Planning /

Todd Litman -- Victoria, BC : Victoria Transport Policy Institute, 2016-05, 80 pp.
<http://www.vtpi.org/gentraf.pdf>

How Might Virginia Age and Grow by 2040? /

John S. Miller et al. -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA :
Virginia Dept. of Transportation, 2016-04 (FHWA/VTRC 16-R12), 151 pp. http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r12.pdf

I-87 / US 9 Integrated Corridor Management Plan - Final Report /

Frederick A. Frank and Lawrence Lennon -- Buffalo, NY : Parsons Brinckerhoff, Inc. ; Albany, NY :
Creighton Manning Engineers ; New York State Dept. of Transportation ; Capital District Transportation
Committee, 2015-12 (C-07-69), 118 pp. https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/C-07-69_%20I-87%20US9%20ICMP%20Final%20Report_12-14-15.pdf

Increasing Highway Capacity Unlikely to Relieve Traffic Congestion [TechBrief]/

Susan Handy -- Davis, CA : University of California-Davis, Institute of Transportation Studies ; National
Center for Sustainable Transportation, 2015-10 (NCST Policy Brief), 2 pp. http://cal.streetsblog.org/wp-content/uploads/sites/13/2015/11/10-12-2015-NCST_Brief_InducedTravel_CS6_v3.pdf

Interregional Travel: A New Perspective for Policy Making /

Transportation Research Board, Committee for a Study of Intercity Passenger Travel Issues and
Opportunities in Short-Haul Markets -- Washington, DC : TRB, 2016 (Special Report 320), 187 pp. <http://www.trb.org/Publications/Blurbs/173764.aspx>

Parking Basics /

Christopher Kost, Ranga Rohini C., and Shreya Gadepalli -- [s.l.], India : Institute for Transportation and
Development Policy, 2015-07, 20 pp. <https://www.itdp.org/wp-content/uploads/2015/10/Parking-Basics.pdf>

Parking Management: Strategies, Evaluation and Planning /

Todd Litman -- Victoria, BC : Victoria Transport Policy Institute, 2013-11, 31 pp.
http://www.vtpi.org/park_man.pdf

Suburban Poverty, Public Transit, Economic Opportunities, and Social Mobility /

Rae Zimmerman et al. -- New York : New York University, Robert F. Wagner Graduate School of Public
Service, Institute for Civil Infrastructure Systems ; City College of the City University of New York,
University Transportation Research Center - Region 2, 2015-12, 41 pp. <http://www.utrc2.org/sites/default/files/Final-Report-Surburban-Poverty-Public-Trans-Eco-Opportunities.pdf>

Technology-Enabled Transportation Services /

Transportation Research Board -- Washington, DC : TRB, 2016-03 (TR News No. 302 (March-April
2016)), 60 pp. <http://www.trb.org/Publications/Blurbs/174384.aspx>

Towards a Sustainable Built Environment for British Columbia: Synthesis of Findings /
MODUS -- British Columbia : Real Estate Foundation of British Columbia, 2015-10, 76 pp. <http://www.refbc.com/sites/default/files/Towards%20a%20Sustainable%20Built%20Environment%20for%20BC%20-%20FINAL%202015-10-13.pdf>

Transportation Alternatives Program Performance Management Guidebook /

C.D. Porter et al. -- Cambridge, MA : Cambridge Systematics, Inc. ; Silver Spring, MD : Toole Design Group, Inc. ; Raleigh, NC : Leigh Blackmon Lane ; Washington, DC : U.S. Dept. of Transportation, 2016- 03 (FHWA-HEP-16-026), 143 pp.
http://www.fhwa.dot.gov/environment/transportation_alternatives/performance_management/guidebook/tap_pm_guidebook.pdf

Trip Generation at Virginia Agritourism Land Uses /

Peter B. Ohlms -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-06 (FHWA/VTRC 16-R18), 57 pp. http://www.viriniadot.org/vtrc/main/online_reports/pdf/16-r18.pdf

Rail

Developing Multi-State Institutions to Implement Intercity Passenger Rail Programs /

Michael Meyer, Crystal Cummings, and Shelly Brown -- Washington, DC : Transportation Research Board, 2016 (NCRRP Report 5), 126 pp. <http://www.trb.org/Publications/Blurbs/173823.aspx>

Guidebook for Intercity Passenger Rail Service and Development /

Curtis A. Morgan et al. -- Washington, DC : Transportation Research Board, 2016 (NCRRP Report 6), various pagings <http://www.trb.org/Publications/Blurbs/174443.aspx>

Intercity Passenger Rail in the Context of Dynamic Travel Markets /

RSG et al. -- Washington, DC : Transportation Research Board, 2016 (NCRRP Report 4), 120 pp. <http://www.trb.org/Publications/Blurbs/173822.aspx>

Railroads - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2545), 139 pp. <http://www.trb.org/Publications/Blurbs/174511.aspx>

Reference

2010 ADA Standards for Accessible Design /

U.S. Dept. of Justice -- Washington, DC : U.S. Dept. of Justice, 2010-09, 277 pp.

Research

Disruptions and Transformations: Findings from the States /

Transportation Research Board -- Washington, DC : TRB, 2016 (TR News No. 301 (January-February 2016)), 52 pp. <http://www.trb.org/Publications/Blurbs/174123.aspx>

Research and Education /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2552), 56 pp. <http://www.trb.org/Publications/Blurbs/174561.aspx>

Research Process Improvement and Regulatory Compliance Updates /

Jason Bittner and James Osborne -- New York : Cambridge Systematics, Inc. ; Trenton, NJ :

New Jersey Dept. of Transportation, Bureau of Research, 2015-10 (NJ-2016-001), 34 pp.
<http://www.state.nj.us/transportation/refdata/research/reports/NJ-2016-001.pdf> - full report ;
<http://www.state.nj.us/transportation/refdata/research/reports/NJ-2016-001-TB.pdf> - Tech Brief

Right-of-Way

Takings and Mitigation /

Timothy R. Wyatt -- Washington, DC : Transportation Research Board, 2016-04 (Legal Research Digest 70), 36 pp. <http://www.trb.org/Publications/Blurbs/174224.aspx>

Safety & Human Performance

Cable-to-Post Attachments for a Non-Proprietary High-Tension Cable Barrier - Phase III /

Scott K. Rosenbaugh et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2016-03 (TRP-03-323-16), 110 pp.

Continued Development of a Non-Proprietary, High-Tension, Cable End Terminal System/

Jennifer D. Schmidt et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2016-04 (TRP-03-332-16), 79 pp.

Dynamic Post Testing Review /

Karla A. Lechtenberg, John D. Reid, and Ronald K. Faller -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; U.S. Dept. of Transportation, Region VII University Transportation Center, Mid-America Transportation Center (MATC); Nebraska Dept. of Roads (NDOR), 2015-12 (TRP-03-328-15), 15 pp.

Evaluation of the Safety Performance of Continuous Mainline Roadway Lighting on Freeway Segments in Washington State /

Ida van Schalkwyk et al. -- Olympia, WA : Washington State Dept. of Transportation, HQ Traffic Operations ; Research Office, 2016-03 (WA-RD 855.1), 84 pp.
<http://www.wsdot.wa.gov/research/reports/fullreports/855.1.pdf>

Improvements to Road Safety Improvement Selection Procedures for Connecticut /

John Ivan et al. -- Storrs, CT : University of Connecticut, Connecticut Transportation Institute ; Newington, CT : Connecticut Dept. of Transportation, 2016-06 (JHR 16-328), 77 pp.
http://www.ct.gov/dot/lib/dot/documents/dpolicy/research/JHR_16-328_CCTRP_14-01.pdf

Integration of Microscopic Big Traffic Data in Simulation-Based Safety Analysis /

Mohamed Abdel-Aty et al. -- Orlando, FL : University of Central Florida : Iowa City, IA : University of Iowa, Safety Research Using Simulation (SAFERSIM), University Transportation Center, 2016-03, 134 pp. http://safersim.nads-sc.uiowa.edu/final_reports/UCF-1-Y1_FinalReport.pdf

MASH Test Nos. 3-11 and 3-10 on a Non-Proprietary Cable Median Barrier /

Justine E. Kohtz et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2016-05 (TRP-03-327-16), 346 pp.

Practice of Rumble Strips and Rumble Stripes /

Omar Smadi and Neal Hawkins -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 490), 52 pp. <http://www.trb.org/Publications/Blurbs/174393.aspx>

Practices for High-Tension Cable Barriers /

Richard D. Powers and Karen Boodlal -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 493), 55 pp. <http://www.trb.org/Publications/Blurbs/174394.aspx>

Safety Evaluation of Continuous Green T Intersections /

Eric Donnell, Jonathan Wood, and Kimberly Eccles -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, 2016-04 (FHWA-HRT-16-036), 73 pp. <https://www.fhwa.dot.gov/publications/research/safety/16036/index.cfm>

Traffic Safety Facts - 2014 Data: Older Population [Fact Sheet]/

National Highway Traffic Safety Administration -- Washington, DC : U.S. Dept. of Transportation, NHTSA, 2016-05 (DOT HS 812 273), 8 pp.

Traffic**Continuation of the Interoperable Coordinated Signal System Deployment in White Plains, New York - Final Report /**

Jacques Lardoux, Ray Martinez, and Edward Heller -- New York : TransCore ITS, LLC ; Albany, NY : New York State Energy Research and Development Authority (NYSERDA) ; New York State Dept. of Transportation (NYSDOT), 2015-12 (C-11-58 ; NYSERDA Report 15-36), 28 pp. https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/C-11-58%20Final%20Report%20_12-2015.pdf

Guidelines for Nighttime Visibility of Overhead Signs /

Paul J. Carlson et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 828), 72 pp. <http://www.trb.org/Publications/Blurbs/174251.aspx>

Investigation of New Vehicle Detectors for High-Speed Signalized Intersections /

Dan Middleton et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2015-09 (FHWA/TX-15/0- 6828-1), 190 pp. <http://tti.tamu.edu/documents/0-6828-1.pdf>

LED Traffic Signal Management System /

Leticia S.F.R. Courville -- Baton Rouge, LA : Louisiana State University, Louisiana Transportation Research Center ; Louisiana Dept. of Transportation and Development, 2016-06 (FHWA/LA.15/563), 71 pp. http://www.ltrc.lsu.edu/pdf/2016/FR_563.pdf

MDT Special Events Planning Synthesis - Final Report /

Jaime Sullivan, Karalyn Clouser, and Steve Albert -- Bozeman, MT : Montana State University, Western Transportation Institute ; Helena, MT : Montana Dept. of Transportation, Research Programs, 2016-05 (FHWA/MT-16-002/8117-48), 149 pp. http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/special_event_traffic/Final_Report_May15.pdf

Traffic Monitoring: Automobiles, Trucks, Bicycles, and Pedestrians /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2593), 122 pp. <http://www.trb.org/Publications/Blurbs/174495.aspx>

Transit

Asset Management Guide for Small Providers: Focusing on the Management of Our Transit Investments /

Christian Roberts, Tiffany Batac, and Margaret-Avis Akofio-Sowah -- Washington, DC : WSP Parsons Brinkerhoff ; U.S. Dept. of Transportation, Federal Transit Administration, 2016-03 (FTA Report No.0092), 38 pp.

https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Report_No._0092.pdf

Integration of Bus Stop Counts Data with Census Data for Improving Bus Service /

Catherine Lawson -- Albany, NY: University at Albany; Trenton, NJ: New Jersey Dept. of Transportation, Bureau of Research, 2016-04 (FHWA-NJ-2016-001), 65 pp.

<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-001.pdf> - full report ;

<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-001-TB.pdf> - Tech Brief

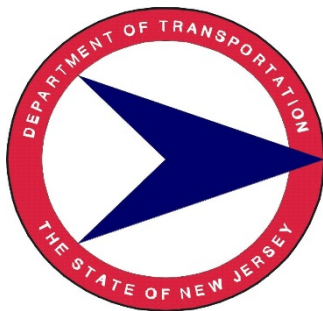
Retrofit Assessment for Existing Motorcoaches: A Report to Congress /

National Highway Traffic Safety Administration -- Washington DC : NHTSA, 2016-03 (DOT HS 812 242), 37 pp. <http://www-nrd.nhtsa.dot.gov/Pubs/812242.pdf>

Work Zones

Optimizing Work Zones for Highway Maintenance with Floating Car Data (FCD) /

Steven Chien and Kyriacos Mouskos -- Newark, NJ : New Jersey Institute of Technology ; New York : City College of New York, University Transportation Research Center - Region 2, 2015-12, 57 pp. http://www.utrc2.org/sites/default/files/pubs/Final-Report-Optimizing-Work-Zones-for-Highway-Maintenance_0.pdf



**NJ DEPARTMENT OF
TRANSPORTATION RESEARCH
LIBRARY
*SELECTED RECENT ACQUISITIONS***

July - September 2016

The resources reported in this issue are listed by main subject area and then alphabetically by title. Each item is listed only once, so please check related subjects for additional materials that may be of interest. If you would like to see any of these items and there is no link to an online version, please contact the Research Library at library@dot.nj.gov (Library, DOT) or call 609-530-5289 for these or any other publications.

Administration and Management

Estimating Highway Preconstruction Services Costs - Volume 1: Guidebook /

Douglas D. Gransberg et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 826), 112 pp. <http://www.trb.org/Publications/Blurbs/174755.aspx>

Estimating Highway Preconstruction Services Costs - Volume 2: Research Report /

Douglas D. Gransberg et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 826), 87 pp. <http://www.trb.org/Publications/Blurbs/174756.aspx>

Leadership Guide for Strategic Information Management for State Departments of Transportation /

Frances Harrison, Michael Gordon. and Gary Allen -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 829), 101 pp. <http://www.trb.org/Publications/Blurbs/174182.aspx>

Survey of State Funding for Public Transportation - Final Report 2016 - FY 2014 Data /

American Association of State Highway and Transportation Officials -- 10th edition -- Washington, DC : AASHTO, 2016 (SSFP-10), 226 pp. <http://drm.transportation.org/paid-publications.aspx?ItemID=2621&ORDER-ID=137812&ORDER-ITEM-ID=172818&ACCOUNT-ID=62432>

Uniform Audit & Accounting Guide for Audits of Architectural and Engineering (A/E) Consulting Firms /

Scot P. Gormley, editor, and Dan Purvine -- 2016 edition -- Washington, DC : American Association of State Highway and Transportation Officials, Audit Subcommittee, 2016 (Publ. Code: UAAG-4), 171 pp. <https://bookstore.transportation.org/paid-publications.aspx?Action=ItemDetail&ItemID=2625&ORDER-ID=140403&ORDER-ITEM-ID=176036&ACCOUNT-ID=62432> - requires login

Aviation

Addressing Significant Weather Impacts on Airports: Quick Start Guide and Toolkit /

ICF International et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 160), various pagings <http://www.trb.org/Publications/Blurbs/174950.aspx>

Airport Advisories at Non-Towered Airports /

C. Daniel Prather and DPrather Aviation Solutions LLC -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 75), 58 pp. <http://www.trb.org/Publications/Blurbs/174840.aspx>

Airport Sustainability Practices /

Amy Malick -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 77), 50 pp. <http://www.trb.org/Publications/Blurbs/174993.aspx>

Combining Mixed-Use Flight Operations Safely at Airports /

Stephen M. Quilty -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 74), 155 pp. <http://www.trb.org/Publications/Blurbs/174589.aspx>

Deriving Benefits from Alternative Aircraft-Taxi Systems /

Damon Fordham et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 158), 29 pp. <http://www.trb.org/Publications/Blurbs/174896.aspx>

Emergency Communications Planning for Airports /

James F. Smith et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 73), 87 pp. <http://www.trb.org/Publications/Blurbs/174757.aspx>

Helicopter Noise Information for Airports and Communities /

Vincent Mestre, Paul Schomer, and Katherine Liu -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 76), 135 pp. <http://www.trb.org/Publications/Blurbs/174859.aspx>

Improving the Airport Customer Experience /

Bruce J. Boudreau et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 157), 260 pp. <http://www.trb.org/Publications/Blurbs/174127.aspx>

NextGEN for Airports - Volume 1: Understanding the Airport's Role in Performance-Based Navigation: Resource Guide /

Sebastian Timar et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 150), 155 pp. <http://www.trb.org/Publications/Blurbs/174588.aspx>

Tabletop and Full-Scale Emergency Exercises for General Aviation, Non-Hub, and Small Hub Airports /

James F. Smith -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 72), 162 pp. <http://www.trb.org/Publications/Blurbs/174692.aspx>

UAVs in Civil Infrastructure /

Jeremiah Karpowicz -- Portland, ME : Diversified Communications, Commercial UAV EXPO, 2016, 8 pp. <http://www.expouav.com/news/reports/>

Bicycles and Pedestrians

Guidebook for Developing Pedestrian and Bicycle Performance Measures /

Conor Semler et al. -- Chapel Hill, NC : UNC Highway Safety Research Center ; Portland, OR : Kittelson & Associates, Inc. ; Washington, DC : Federal Highway Administration, Office of Human Environment, 2016-03 (FHWA-HEP-16-037), 100 pp.

<https://www.fhwa.dot.gov/environment/bicycle-pedestrian/publications/performance-measures-guidebook/>

Pedestrian Infrastructure: Strategies for Improving Pedestrian Safety through Low-Cost Traffic Calming /

WalkBoston -- Boston, MA : WalkBoston ; MA Dept. of Public Health, Mass in Motion, 2015-08, 34 pp. <http://walkboston.org/sites/default/files/WalkBoston%20-%20Low%20Cost%20Pedestrian%20Improvements.pdf>

Bridges and Structures

2017 Interim Revisions to the LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals [Looseleaf] /

American Association of State Highway and Transportation Officials -- 1st edition -- Washington, DC : AASHTO, 2016 (LRFDLTS-1-I1-OL), 40 pp. (online and printout) <https://bookstore.transportation.org/item-details.aspx?ID=2694> ; requires login

Assessment of Current Design Loads for Permit Vehicles /

Jeffrey A. Laman and Meet Shah -- University Park, PA : Pennsylvania State University, Thomas D. Larson Pennsylvania Transportation Institute ; Harrisburg, PA : Pennsylvania Dept. of Transportation, Bureau of Planning and Research, 2016-05 (FHWA-PA-2016-003-PSU WO 16), 809 pp. <http://www.dot7.state.pa.us/BPR-PDF-FILES/Documents/Research/Complete%20Projects/Design/Assessment-of-Current-Design-Loads-for-Permit-Vehicles.pdf>

Bridge Inspector's Reference Manual (BIRM) [Electronic] /

Thomas W. Ryan et al. -- December 2012 revision -- Moon Township, PA : Michael Baker, Jr., Inc. ; Arlington, VA : Federal Highway Administration, National Highway Institute, 2012-12 (FHWA-NHI-12-049 ; FHWA-NHI-12-050), 2 volumes in one ; 2004 pp. <https://www.fhwa.dot.gov/bridge/nbis/pubs/nhi12049.pdf> ; BIRM Mobile Application: <https://www.fhwa.dot.gov/bridge/birm/>

Inspection Guide for Column Splice Regions Affected by Premature Concrete Deterioration /

Joseph M. Bracci -- College Station, TX : Texas A&M Transportation Institute ; [Austin, TX] : Texas Dept. of Transportation, 2016-07 (0-5722-P2), 40 pp. <http://tti.tamu.edu/documents/0-5722-P2.pdf>

Self-Consolidating Concrete for Cast-in-Place Bridge Components /

George Morcoux et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 819), various pages <http://www.trb.org/Publications/Blurbs/174472.aspx>

Construction

2016 Road and Bridge Specifications /

Virginia Department of Transportation -- Richmond, VA : VDOT, 2016, 1091 pp.
<http://www.virginiadot.org/business/resources/const/VDOT-2016-RB-Specs.pdf>

Energy and Environment

Air Quality /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2570), 147 pp. <http://www.trb.org/Publications/Blurbs/174938.aspx>

Application of Remote Real-Time Monitoring to Offshore Oil and Gas Operations /

Transportation Research Board, Committee on the Application of Real-Time Monitoring of Offshore Oil and Gas Operations -- Washington, DC : TRB, 2016 (Special Report 322), 117 pp. <http://www.trb.org/Publications/Blurbs/174214.aspx>

Energy, Alternative Fuels, and Climate Change /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2572), 111 pp. <http://www.trb.org/Publications/Blurbs/174898.aspx>

Environment /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2571), 89 pp. <http://www.trb.org/Publications/Blurbs/174698.aspx>

Maximizing Mitigation Benefits: Research to Support a Mitigation Cost Framework - Final Report /

Kristi Miller et al. -- College Station, TX : Texas A&M Transportation Implementation Office ; Austin, TX: Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-08 (FHWA/TX-16/0-6762-01-1), 62 pp.
<http://tti.tamu.edu/documents/0-6762-01-1.pdf>

Navigating Multi-Agency NEPA Processes to Advance Multimodal Transportation Projects /

Donald J. Emerson et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 827), various pages, <http://www.trb.org/Publications/Blurbs/174665.aspx>

Sediment and Erosion Control Laboratory Facility Expansion /

Jett A. McFalls and Beverly J. Storey -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, 2016-08 (FHWA/TX-13/5-9048-01), 14 pp. <http://tti.tamu.edu/documents/5-9048-01.pdf>

Freight / Goods Movement

Freight Systems - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2547), 110 pp.

Freight Systems - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2548), 106 pp.

Guide for Maximum Dimensions and Weights of Motor Vehicles /

American Association of State Highway and Transportation Officials, Subcommittee on Highway Transport -- 5th edition -- Washington, DC : AASHTO, 2016-08 (GSW-5), 34 pp.

Multi-State, Multimodal, Oversize/Overweight Transportation /

CPCS, Perkins Motor Transport, Inc., and Portscape, Inc. -- Washington, DC: Transportation Research Board, 2016 (NCHRP Report 830), 165 pp.

<http://www.trb.org/Publications/Blurbs/174838.aspx>

Geotechnical

Field Instrumentation and Testing to Study Set-up Phenomenon of Piles Driven into Louisiana Clayey Soils /

Murad Y. Abu-Farsakh, Md. Nafiul Haque, and Qiming Chen -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development, 2016-07 (FHWA/LA.15/562), 179 pp.

<http://www.ltrc.lsu.edu/pdf/2016/FR-562.pdf>

Geological, Geoenvironmental, and Geotechnical Engineering - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2579), 95 pp. <http://www.trb.org/Publications/Blurbs/174956.aspx>

Geological, Geoenvironmental, and Geotechnical Engineering - Volume 3 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2580), 88 pp. <http://www.trb.org/Publications/Blurbs/174751.aspx>

Minimizing Roadway Embankment Damage from Flooding /

Jean Louis-Briaud and Layal Maddah -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 496), 104 pp. <http://www.trb.org/Publications/Blurbs/174773.aspx>

Highway Design

Highway Design /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2588), 180 pp. <http://www.trb.org/Publications/Blurbs/174748.aspx>

A Policy on Design Standards - Interstate System /

American Association of State Highway and Transportation Officials, Technical Committee on Geometric Design 2015-2016 -- 6th edition -- Washington, DC : AASHTO, 2016-05 (DS-6), 14 pp. <http://drm.transportation.org/>

Information Management

Information Technology, Geospatial Information, and Advanced Computing /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2595), 147 pp. <http://www.trb.org/Publications/Blurbs/174965.aspx>

Intelligent Transportation Systems (ITS)

Federal Automated Vehicles Policy: Accelerating the Next Revolution in Roadway Safety /

Washington, DC : U.S. Dept. of Transportation, National Highway Traffic Safety Administration (NHTSA), 2016-09, 116 pp.

<https://www.transportation.gov/AV/federal-automated-vehicles-policy-september-2016>

ITS Strategic Plan for Texas [Tech Summary] /

Edward J. Seymour et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-13/0-6672-P1), 24 pp. <http://tti.tamu.edu/documents/0-6672-P1.pdf>

An ITS Strategic Plan for Texas - Executive Plan Summary [Tech Summary] /

Edward J. Seymour et al. -- College Station, TX : Texas A&M Transportation Institute ; [Austin, TX] : Texas Dept. of Transportation, 2016-07 (0-6672-3), 4 pp. <http://tti.tamu.edu/documents/0-6672-3.pdf>

Legal Issues

Impact of Firearms Laws on Airports /

Larry W. Thomas -- Washington, DC : Transportation Research Board, 2016-08 (Legal Research Digest 29), 66 pp.; appendices available online <http://www.trb.org/Publications/Blurbs/174765.aspx>

Liability of Transportation Entity for the Unintentional Release of Secure Data or the Intentional Release of Monitoring Data on Movements or Activities of the Public /

Larry W. Thomas and James B. McDaniel -- Washington, DC : Transportation Research Board, 2016-07 (Legal Research Digest 71), 56 pp. <http://www.trb.org/Publications/Blurbs/174719.aspx>

Marine / Waterways

Marine Transportation and International Trade /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2549), 110 pp. <http://www.trb.org/Publications/Blurbs/174800.aspx>

Materials

Asphalt Materials and Mixtures - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2575), 212 pp. <http://www.trb.org/Publications/Blurbs/174957.aspx>

Concrete Materials /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2577), 96 pp.

Field Validation of Laboratory Tests to Assess Cracking Resistance of Asphalt Mixtures: An Experimental Design /

National Cooperative Highway Research Program -- Washington, DC : Transportation Research Board, 2016-08 (Research Results Digest 399), 25 pp. <http://www.trb.org/Publications/Blurbs/174845.aspx>

Standard Specifications for Transportation Materials and Methods of Sampling and Testing, and the AASHTO Provisional Standards [Electronic] /

American Association of State Highway and Transportation Officials, Highway Subcommittee on Materials -- 2016 edition -- Washington, DC : AASHTO, 2016 (Publ. Code: HM-WB1), 4652 pp. in web-based format
<http://hm.digital.transportation.org/Materials.aspx> - requires login

Use of Reclaimed Asphalt Pavement and Recycled Asphalt Shingles in Asphalt Mixtures /

Mary Stroup-Gardner -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 495), 122 pp. <http://www.trb.org/Publications/Blurbs/174969.aspx>

Operations and Maintenance

Maintenance and Preservation /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2550), 130 pp. <http://www.trb.org/Publications/Blurbs/174699.aspx>

Spreadsheet-Based Data Analysis Tool - User's Guide /

Jeremy Johnson, Tara Ramani, and Michael Kader -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-13/0-6626-P1), 26 pp., CD accompanying files available in .zip file <http://tti.tamu.edu/documents/0-6626-P1.pdf> ; <http://tti.tamu.edu/documents/0-6626-P1-CD.zip>

Pavements

Guidelines on Design and Construction of High Performance Thin HMA Overlays /

Cindy K. Estakhri, Tommy Blackmore, and Tom Scullion -- College Station, TX : Texas A&M Transportation Institute, 2016-08 (5-5598-05-WS2), 125 pp.
<http://tti.tamu.edu/documents/5-5598-05-WS2.pdf>

Image-Based Approach for Road Profile Analyses /

Jen-Yu Han, Aidchin Chen, and Yan-Ting Lin -- Reston, VA : ASCE, Journal of Surveying Engineering, Vol. 142 no. 1, 2016-02, 9 pp.

International Center for Partnered Pavement Preservation (ICP3): First Year Progress Report /

Jorge A. Prozzi et al. -- Austin, TX : University of Texas at Austin, Center for Transportation Research ; Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-06 (FHWA/TX-16/0-6878-1), 60 pp. <http://library.ctr.utexas.edu/ctr-publications/0-6878-1.pdf>

Pavement Life-Cycle Assessment Framework /

John T. Harvey et al. -- Urbana, IL : Applied Pavement Technology, Inc. ; Washington, DC : Federal Highway Administration, 2016-07 (FHWA-HIF-16-014), 246 pp.
<http://www.fhwa.dot.gov/pavement/sustainability/hif16014.pdf>

Pavement Management - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2589), 171 pp. <http://www.trb.org/Main/Blurbs/174774.aspx>

Pavement Management - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2106 (Transportation Research Record No. 2590), 141 pp. <http://www.trb.org/Publications/Blurbs/174966.aspx>

Selection and Design of Quiet Pavement Surfaces /

Andre de Fortier Smit et al. -- Austin, TX : University of Texas at Austin, Center for Transportation Research ; Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-06 (FHWA.TX-16/0-6819-1), 179 pp.
<http://library.ctr.utexas.edu/ctr-publications/0-3819-1.pdf>

TPADANA 2.0: Draft User's Manual of TPAD Data Analysis Software /

Wenting Liu and Tom Scullion -- College Station, TX: Texas A&M Transportation Institute, 2016-08 (5-6005-01-P1), 52 pp. <http://tti.tamu.edu/documents/5-6005-01-P1.pdf>

Planning

Assessing the Vulnerability of Tennessee Transportation Assets to Extreme Weather /

Mark Abkowitz, Janey Camp, and Leah Dundon -- Nashville, TN : Tennessee Dept. of Transportation ; Washington, DC : Federal Highway Administration, 2015-05, 49 pp.
<http://www.fhwa.dot.gov/environment/climate-change/adaptation/resilience-pilots/2013-2015-pilots/tennessee/tdot.pdf>

Characterizing Risk in Climate Change Assessments: Proceedings of a Workshop for the U.S. Global Change Research Program /

Alexandra Beatty, rapporteur et al. -- Prepublication copy, uncorrected proofs -- Washington, DC : National Academies Press, 2016, 84 pp. <http://www.nap.edu/download/23569>

Frontiers in Decadal Climate Variability: Proceedings of a Workshop (2016) /

Amanda Purcell and Nancy Huddleston, rapporteurs et al. -- Washington, DC : National Academies Press, 2016, 92 pp.
<http://www.nap.edu/catalog/23552/frontiers-in-decadal-climate-variability-proceedings-of-a-workshop?utm-source=NAP+Newsletter&utm-campaign=6f23644044-NAP-mail-new-2016-08-02&utm-medium=email&utm-term=0-96101de015-6f23644044-102052865&goal=0-96101de015-6f23644044-102052865&mc-cid=6f23644044&mc-eid=6bffb24c7f>

Maintaining Project Consistency with Transportation Plans throughout the Project Life Cycle with an Emphasis on Maintaining Air Quality Conformity: Technical Report /

Mohamadreza Farzaneh et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-14/0-6758-1), 100 pp. <http://tti.tamu.edu/documents/0-6758-1.pdf>

Managing Performance and Assets; Freight Data and Visualization /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record. No. 2596), 64 pp. <http://www.trb.org/Publications/Blurbs/174835.aspx>

Passenger Travel Facts and Figures 2016 /

William H. Moore, editor -- Washington, DC : U.S. Dept. of Transportation, Bureau of Transportation Statistics, 2016, 102 pp. <https://www.rita.dot.gov/bts/publications/passenger-travel-2016>

Planning and Preliminary Engineering Applications Guide to the Highway Capacity Manual /

Richard Dowling et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 825), 259 pp. <http://www.trb.org/Publications/Blurbs/174958.aspx>

A Retrospective Evaluation of Traffic Forecasting Techniques /

John S. Miller et al. -- Charlottesville, VA : Virginia Transportation Research Center ; Richmond, VA : Virginia Dept. of Transportation, 2016-08 (FHWA/VTTC 17-R1), 96 pp. <http://www.virginadot.org/vtrc/main/online-reports/pdf/17-r1.pdf>

TDM Encyclopedia [Electronic] /

Victoria Transport Policy Institute -- Victoria, BC : VTPI, 2014, internet resource <http://www.vtpi.org/tdm/tdm12.htm> ; <http://www.vtpi.org/tdm/>

Travel Behavior - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2565), 110 pp. <http://www.trb.org/Publications/Blurbs/174897.aspx>

Rail

Railroads - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2546), 136 pp.

State Rail Planning Best Practices - Volume 2 /

Donald B. Ludlow -- Washington, DC : American Association of State Highway and Transportation Officials, AASHTO Rail Resource Center and the Standing Committee on Rail Transportation (SCORT), 2016-05 (SRPG-1S), 43 pp. <http://drm.transportation.org/login.aspx>

Reference

Manual of the Legislature of New Jersey: Two Hundred and Seventeenth Legislature (First Session) - 2016 /

Lawyers Diary and Manual, LLC - by authority of the Legislature -- Summit, NJ : Lawyers Diary and Manual, LLC, 2016, 1101 pp.

New Jersey Transportation by the Numbers [Fact Sheet] /

Bureau of Transportation Statistics -- Washington, DC : U.S. Dept. of Transportation, BTS, 2016-01, 4-page bifold <http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/new-jersey.pdf>

Research

Biennial Report 2014-2015 /

Washington State Transportation Center -- Olympia, WA : Washington State Dept. of Transportation, 2016, 43 pp. <http://www.trac.washington.edu>

LTRC Annual Research Program: Fiscal Year July 1, 2016 - June 30, 2017 /

Louisiana Transportation Research Center -- Baton Rouge, LA : Louisiana Dept. of Transportation and Development ; Louisiana Transportation Research Center, 2016-06, 190 pp. <http://www.ltrc.lsu.edu/pdf/2016/Binder1.pdf>

Safety & Human Performance

Automated Vehicles: Driver Knowledge, Attitudes, & Practices /

Robyn D. Robertson, Shawna R. Meister, and Ward G.M. Vanlaar -- Ottawa, Ontario, Canada : Traffic Injury Research Foundation (TIRF), 2016 (16J), 48 pp. <http://tirf.ca/publications/publications-show.php?pub-id=342>

Crash Test and Evaluation of 3-FT Mounting Height Sign Support System /

Nauman M. Sheikh et al. -- College Station, TX : Texas A&M Transportation Institute Proving Ground ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-15/9-1002-15-1), 70 pp. <http://d2dtl5nnlpfr0r.cloudfront.net/tti.tamu.edu/documents/9-1002-15-1.pdf>

Crash Test and Evaluation of Temporary Wood Sign Support System for Large Guide Signs /

Dusty R. Arrington et al. -- College Station, TX : Texas A&M Transportation Institute Proving Ground ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-15/9-1002-15-4), 84 pp. <http://tti.tamu.edu/documents/9-1002-15-4.pdf>

Development of a TL-2 Steel Bridge Railing and Transition for Use on Transverse, Nail-Laminated, Timber Bridges /

Ryan J. Terpsma et al. -- Lincoln, NE : University of Nebraska - Lincoln, Midwest Roadside Safety Facility (MwRSF) ; Weston, WV : West Virginia Dept. of Transportation, Division of Highways, District 7 Bridge Dept., 2009-08 (TRP-03-212-09), 129 pp.

Improvements to Highway Guardrail Assemblies /

Todd Shupe -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development, 2016-05 (FHWA/LA.15/14-ITIRE), 44 pp. <http://www.ltrc.lsu.edu/pdf/2016/14-1TIRE.pdf>

Investigation of Driver Speed Choice and Crash Characteristics During Low Visibility Events /

Kate McCann and Michael D. Fontaine -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-09 (VTRC 17-R4), 58 pp. <http://www.virginiadot.org/vtrc/main/online-reports/pdf/17-r4.pdf>

MASH Test 3-11 of the TxDOT T222 Bridge Rail /

William F. Williams et al. -- College Station, TX : Texas A&M Transportation Institute Proving Ground ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-14/9/-1002-12-13), 76 pp. <http://tti.tamu.edu/documents/9-1002-12-13.pdf>

MASH TL-3 Crash Testing and Evaluation of the TxDOT T631 Bridge Rail /

William F. Williams et al. -- College Station, TX : Texas A&M Transportation Institute Proving Ground ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-14/9/-1002-12-12), 168 pp.
<http://tti.tamu.edu/documents/9-1002-12-12.pdf>

Midwest Guardrail System (MGS) with 6-ft Posts Placed Adjacent to a 1V:2H Fill Slope /

Austin J. Haase et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Regional Pooled Fund Program, 2016-08 (TRP-03-320-16), 135 pp., print or CD-ROM

Safety Evaluation of Intersection Conflict Warning Systems /

Scott Himes et al. -- Vienna, VA : VHB ; Washington, DC : U.S. Dept. of Transportation, Federal Highway Administration, 2016-06 (FHWA-HRT-16-035), 80 pp.
<https://www.fhwa.dot.gov/publications/research/safety/16035/index.cfm>

Safety Management, School Transportation, and Safety Workforce Development /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2582), 94 pp. <http://www.trb.org/Publications/Blurbs/174767.aspx>

Update to Cable Barrier Literature Review /

Cody S. Solle, John D. Reid, and Karla A. Lechtenberg -- Lincoln, NE : University of Nebraska - Lincoln, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Regional Pooled Fund Program, 2010-08 (TRP-03-227-10), 241 pp.

Security

Systems Resilience and Climate Change /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2599), 90 pp. <http://www.trb.org/Publications/Blurbs/174655.aspx>

Traffic

AASHTO Guidelines for Supplemental Guide Signing - Part I: Guidelines for the Selection of Supplemental Guide Signs for Traffic Generators Adjacent to Freeways - Part II: Guidelines for Airport Guide Signing - Part III: List of Control Cities for Use in Guide Signs on Interstate Highways /

American Association of State Highway and Transportation Officials -- 5th edition -- Washington, DC : AASHTO, 2016-08 (GSGLC-5-UL), 12 pp.
<https://bookstore.transportation.org/my-bookstore.aspx> - requires login

Construction and Installation of Travel Time Signs on I-35 In Austin /

Gerald Ullman et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-08, (FHWA/TX-16/5-9049-05-1), 18 pp. <http://tti.tamu.edu/documents/5-9049-05-1.pdf>

Installation of Dynamic Travel Time Signs and Efforts to Obtain and Test a Graphical Route Information Panel (GRIP) Sign in Austin /

Gerald Ullman et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-08 (FHWA/TX-15/5-9049-03-7), 24 pp.

Traffic Control Device Evaluation Program: Simulator Evaluation of Sponsored Changeable Message Signs and In-Situ Evaluation of Rumble Strip Alternatives /

Adam M. Pike et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-07 (FHWA/TX-15/9-1001-14-2), 120 pp. <http://tti.tamu.edu/documents/9-1001-14-2.pdf>

Traffic Control Devices /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2562), 62 pp. <http://www.trb.org/Publications/Blurbs/174723.aspx>

Traffic Signal Systems - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2557), 121 pp.

Transit

The Bus Renaissance: Intercity Travel, Bus Rapid Transit, Technology Advances, Rural Services /

Transportation Research Board -- Washington, DC : TRB, 2016-05 (TR News No. 303 (May/June 2016)), 52 pp. <http://www.trb.org/Publications/Blurbs/174689.aspx>

Identifying Best Practices for Managing Operating Costs for Rural and Small Urban Transportation Systems: Technical Report /

Suzie Edrington et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-08, (FHWA/TX-13/0-6694-1), 84 pp. <http://tti.tamu.edu/documents/0-6694-1.pdf>

Public Transportation - Volume 2: Passenger Rail and Terminals /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2540), 152 pp. <http://trrjournalonline.trb.org/toc/trr/2540/>

Public Transportation - Volume 3: Management, Performance, and Quality of Service /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2541), 99 pp. <http://www.trb.org/Publications/Blurbs/174749.aspx>

State DOTs Connecting Users and Rides for Special Transportation - Volume 1: Research Report /

Will Rodman et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 832), various pagings

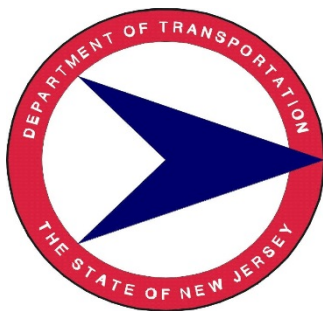
State DOTs Connecting Users and Rides for Special Transportation - Volume 2: Toolkit for StateDOTs and Others /

Will Rodman et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 832), various pagings <http://www.trb.org/Publications/Blurbs/174328.aspx>

Work Zones

Highway Repair Consolidation Feasibility /

Kaan Ozbay et al. -- Piscataway , NJ : Rutgers University ; Brooklyn, NY : NYU ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2016-07 (FHWA-NJ-2016-002), 97 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-002.pdf> - Final Report ; <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-002-TB.pdf> - Tech Brief



**NJ DEPARTMENT OF
TRANSPORTATION RESEARCH
LIBRARY
*SELECTED RECENT ACQUISITIONS***

October - December 2016

The resources reported in this issue are listed by main subject area and then alphabetically by title. Each item is listed only once, so please check related subjects for additional materials that may be of interest. If you would like to see any of these items and there is no link to an online version, please contact the Research Library at library@dot.nj.gov (Library, DOT) or call 609-530-5289 for these or any other publications.

Administration and Management

2015 Report to Congress /

National Academies of Sciences, Engineering, and Medicine -- Washington, DC : National Academies, 2016, 56 pp.

http://www.nationalacademies.org/annualreport/Report_to_Congress_2015.pdf

Alternative Contracting Research /

Edward Minchin, Abdol R. Chini, et al. -- Gainesville, FL : University of Florida, M.E. Rinker, Sr. School of Construction Management ; Tallahassee, FL : Florida Dept. of Transportation, 2016-09 (FDOT BDV-31-977-40), 325 pp.

http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_CN/FDOT-BDV31-977-40-rpt.pdf

Applying Knowledge Management /

Transportation Research Board -- Washington, DC : TRB, 2016-09 (TR News No. 305 (September-October 2016)), 52 pp. <http://www.trb.org/Publications/Blurbs/175322.aspx>

Civil Integrated Management (CIM) for Departments of Transportation - Volume 1: Guidebook ; Volume 2: Research Report /

William J. O'Brien et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 831), 2 volumes (64 pp., 89 pp.) <http://www.trb.org/Publications/Blurbs/174318.aspx> ; <http://www.trb.org/Publications/Blurbs/174321.aspx>

Every Place Counts Leadership Academy - Transportation Toolkit /

Federal Highway Administration -- Washington, DC : U.S. Dept. of Transportation, 2016, 94 pp. https://www.transportation.gov/sites/dot.gov/files/docs/Toolkit-Final-4_508.pdf

Revenue, Finance, Pricing, and Economics /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2597), 130 pp. <http://www.trb.org/Publications/Blurbs/175072.aspx>

SHRP2 EconWorks: Wider Economic Benefits Analysis Tools /

Connecticut Department of Transportation -- [Newington, CT] : ConnDOT, 2016-??, 24 pp.
http://www.ct.gov/dot/lib/dot/documents/dresearch/CTDOT_SHRP2_EconWorks_W.E.B.-C11_Final_Report.pdf

Transportation Asset Management: Summary of the 11th National Conference /

Katherine F. Turnbull, rapporteur -- Washington, DC : Transportation Research Board, 2016 (Conference Proceedings on the Web 20), 34 pp.
<http://onlinepubs.trb.org/onlinepubs/conf/cpw20.pdf>

Transportation Capital Program: Fiscal Year 2017 /

New Jersey Department of Transportation and New Jersey Transit Corporation -- Trenton, NJ : NJDOT ; Newark, NJ : NJ Transit, 2016-07, various pagings
<http://www.state.nj.us/transportation/capital/tcp17/>

Transportation Research Board: Innovation and Research Since 1920 [Brochure] /

Transportation Research Board -- Washington, DC : TRB, 2016, 40 pp.

Vehicle Telematics as Platform for Road Use Fees /

Maarit Moran and Trey Baker -- [College Station, TX] : Texas A&M Transportation Institute, 2016-11 (PRC 14-20 F), 40 pp. <https://tti.tamu.edu/policy/technology/prc-report-vehicle-telematics-as-a-platform-for-road-use-fees/>

Aviation

Continuity of Operations Planning for Small Airports /

Amiy Varma et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Synthesis 78), 236 pp. <http://www.trb.org/Publications/Blurbs/175144.aspx>

Contract Risk Management for Airport Agreements /

Robert Alfert, Jr. and Douglas E. Starcher -- Washington, DC : Transportation Research Board, 2016-10 (Legal Research Digest 30), 40 pp.
<http://www.trb.org/Publications/Blurbs/175240.aspx>

Exhaust Emissions from In-Use General Aviation Aircraft /

Tara I. Yacovitch et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 164), 122 pp. <http://www.trb.org/Publications/Blurbs/175323.aspx>

Field Guide for the Airport Pavement Maintenance Recommendation Tool for ACRP Report 159 /

Thomas J. Freeman et al. -- Washington, DC : Transportation Research Board, 2016 (Airport Cooperative Research Program), 152 pp.
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_rpt_159_FieldGuide.pdf

Flight Plans for Aviation Research /

Transportation Research Board -- Washington, DC : TRB, 2016-07 (TR News No. 304 (July-August 2016)), 72 pp. <http://www.trb.org/Publications/Blurbs/175073.aspx>

Guidebook for Assessing Airport Lead Impacts /

Jim Lyons et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 162), 24 pp. <http://www.trb.org/Publications/Blurbs/174934.aspx>

Guidebook for Preparing and Using Airport Design Day Flight Schedules /

Patrick Kennon et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Research Report 163), various pagings <http://www.trb.org/Publications/Blurbs/175210.aspx>

Guidelines for Improving Airport Services for International Customers /

Landrum & Brown, Inc. -- Washington, DC : Transportation Research Board, 2016 (ACRP Research Report 161), 248 pp. <http://www.trb.org/Publications/Blurbs/175168.aspx>

Moving Customers, Cost-Savings and Energy Reduction in the Right Direction [TechSummary] /

Airport Cooperative Research Program -- Washington, DC : Transportation Research Board, 2016-12 (ACRP Impacts on Practice), 2 pp.
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_iop_027.pdf

NextGEN for Airports - Volume 2: Engaging Airport Stakeholders - Guidebook /

Grafton Technologies, Inc. et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 150), 80 pp. <http://www.trb.org/Publications/Blurbs/175117.aspx>

NextGEN for Airports - Volume 3: Resources for Airports /

Robert Hemm et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 150), 86 pp. <http://www.trb.org/Publications/Blurbs/175473.aspx>

NextGen for Airports - Volume 4: Leveraging NextGen Spatial Data for Airports - Guidebook /

Mark Ricketson -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 150), 94 pp. <http://www.trb.org/Publications/Blurbs/175223.aspx>

Operational and Legal Issues with Fuel Farms /

W. Eric Pilsk, David C. Benner, and Louis M. Timpanaro, Jr. -- Washington, DC : Transportation Research Board, 2016-06 (Legal Research Digest 28), 32 pp.
<https://www.nap.edu/catalog/23566/operational-and-legal-issues-with-fuel-farms>

Pavement Maintenance Guidelines for General Aviation Airport Management /

Thomas J. Freeman et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Report 159), 70 pp. <http://www.trb.org/Publications/Blurbs/175058.aspx>

Tracking Alternative Jet Fuel /

Bruno Miller et al. -- Washington, DC : Transportation Research Board, 2016 (ACRP Research Report 165), 56 pp. <http://www.trb.org/Publications/Blurbs/175241.aspx>

Wildlife Surveillance Concept Human-in-the-Loop Laboratory Demonstration /

Mark R. Hale and Anton Koros -- Atlantic City International Airport, NJ : U.S. Dept. of Transportation, Federal Aviation Administration, Airport Safety R&D Section, William J. Hughes Technical Center, 2016-10 (DOT/FAA/TC-TN16/45), 76 pp.
<http://www.airporttech.tc.faa.gov/Download/Airport-Safety-Papers-Publications-Detail/dt/Detail/ItemID/570/Wildlife-Surveillance-Concept-Human-in-the-Loop-Laboratory-Demonstration>

Bicycles and Pedestrians

Application of Pedestrian Crossing Treatments for Streets and Highways /

Libby Thomas, Nathan J. Thirsk, and Charles V. Zegeer -- Washington, DC : Transportation Research Board, 2016 (NCHRP Synthesis 498), 145 pp.
<http://www.trb.org/Publications/Blurbs/175419.aspx>

Identifying Impediments and Solutions to Sidewalk Project Implementation in Pennsylvania /

Mark Magalotti, Yuan Hu, and Halima Bariyeh -- Pittsburgh, PA : University of Pittsburgh, Center for Sustainable Transportation Infrastructure ; Harrisburg, PA : Pennsylvania Dept. of Transportation, Bureau of Planning and Research, 2016-09 (FHWA-PA-2016-013-PIT WO 12), 77 pp.
http://www.dot7.state.pa.us/BPR_PDF_FILES/Documents/Research/Complete%20Projects/Planning/Identifying_Impediments_and_Solutions_to_Sidewalk_Project_Implementation_In_PA.pdf

Pedestrians /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2586), 130 pp. <http://www.trb.org/Publications/Blurbs/175446.aspx>

Bridges and Structures

Analysis of Curved Weathering Steel Box Girder Bridges in Fire /

Reeves Whitney et al. -- Bronx, NY : Manhattan College, Dept. of Civil and Environmental Engineering ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-05, 61 pp. http://www.utrc2.org/sites/default/files/Final-Report-Analysis-of-Curved-Weathering-Steel-Box-Girder.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Assessing, Coding, and Marking of Highway Structures in Emergency Situations - Volume 1: Research Overview ; Volume 2: Assessment Process Manual ; Volume 3: Coding and Marking Guidelines /

Michael J. Olsen et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Research Report 833), 3 volumes (100 pp., 129 pp., 141 pp.)
<http://www.trb.org/Publications/Blurbs/175318.aspx> ;
<http://www.trb.org/Publications/Blurbs/175319.aspx> ;
<http://www.trb.org/Publications/Blurbs/175320.aspx>

Bridge Design System Analysis and Modernization /

Tim Colling et al. -- Houghton, MI : Michigan Technological University, Center for Technology & Training ; Lansing, MI : Michigan Dept. of Transportation, Research Administration, 2016-09 (RC-1645), 64 pp. http://www.michigan.gov/documents/mdot/SPR1642_538797_7.pdf

Continuous Prestressed Concrete Girder Bridges - Volume 2: Analysis, Testing, and Recommendations /

Mary Beth D. Hueste et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-12 (FHWA/TX-15/0-6651-2), 270 pp. <http://tti.tamu.edu/documents/0-6651-2.pdf>

Design Manual for Bridges and Structures - Sixth Edition, 2016 [Looseleaf] /

New Jersey Department of Transportation -- 6th edition -- Trenton, NJ : NJDOT, 2016 (BDC16MB-01), 490 pp.
<http://www.nj.gov/transportation/eng/documents/BDC/documents/DesignManualforBridgesandStructures.pdf>

Development of an Intrinsically Conducting Polymer-Based Low-Cost, Heavy-Duty, and Environmentally-Friendly Coating System for Corrosion Protection of Structural Steels /

Tongyan Pan -- Chicago, IL : Illinois Institute of Technology, Dept. of Civil, Architectural, and Environmental Engineering ; Washington, DC : Transportation Research Board, 2016-03 (NCHRP IDEA Project 157(A)), 139 pp.
http://onlinepubs.trb.org/onlinepubs/IDEA/FinalReports/Highway/NCHRP157_Final_Report.pdf

Development of Low-Water Crossing Design Guidelines for Very Low ADT Routes in Illinois /

Rabin Bhattarai et al. -- Urbana, IL : University of Illinois at Urbana-Champaign, Dept. of Civil and Environmental Engineering, Illinois Center for Transportation ; Springfield, IL : Illinois Dept. of Transportation, Bureau of Material and Physical Research, 2016-11 (FHWA-ICT-16-020), 151 pp. <https://apps.ict.illinois.edu/projects/getfile.asp?id=5066>

Effective Implementation of GPR for Condition Assessment and Monitoring - Phase 2 /

Dimitrios Goulias -- College Park, MD : University of Maryland ; Baltimore, MD : Maryland State Highway Administration, Office of Policy & Research, 2016-10 (MD-16-SHA-UM-4-04), 47 pp. http://www.roads.maryland.gov/OPR_Research/MD-16-SHA-UM-4-04_GPR-II_Report.pdf

Effective Implementation of Ground Penetrating Radar (GPR) for Condition Assessment & Monitoring of Critical Infrastructure Components of Bridges and Highways /

Dimitrios Goulias and Michael L. Scott -- College Park, MD : University of Maryland, Dept. of Civil & Environmental Engineering ; Baltimore, MD : Maryland State Highway Administration, Office of Policy & Research, 2015-01 (MD-15-SHA-UM-3-11), 183 pp.
http://www.roads.maryland.gov/OPR_Research/MD-15-SHA-UM-3-11_GPR-Phase1_Report.pdf

Evaluation of Bridge Decks Using Non-Destructive Evaluation (NDE) at Near Highway Speeds for Effective Asset Management - Pilot Project /

Theresa M. Ahlborn et al. -- Houghton, MI : Michigan Technological University ; Lansing, MI : Michigan Dept. of Transportation, Office of Research and Best Practices, 2016-09 (MDOT RC-1617B), 100 pp., in 3 parts http://www.michigan.gov/documents/mdot/MDOT_RC-1617B_part_1of3_537690_7.pdf ; http://www.michigan.gov/documents/mdot/MDOT_RC-1617B_part_2of3_537692_7.pdf ; http://www.michigan.gov/documents/mdot/MDOT_RC-1617B_part_3of3_537694_7.pdf

Evaluation of Fatigue-Prone Details Using a Low-Cost Thermoelastic Stress Analysis System /

Steven B. Chase and Yaw Adu-Gyamfi -- Charlottesville, VA : University of Virginia ; Richmond, VA : Virginia Dept. of Transportation, 2016-11 (FHWA/VTRC 17-R8), 53 pp. http://www.viriniadot.org/vtrc/main/online_reports/pdf/17-r8.pdf

Finite Element Simulation of Truck Impacts on Highway Bridge Piers /

Anil K. Agrawal and Xiaochen Xu -- New York : City College of New York, University Transportation Research Center - Region 2 ; Washington, DC : U.S. Dept. of Transportation, 2016-04, 47 pp. http://www.utrc2.org/sites/default/files/Final-Report-Finite-Element-Simulation-Truck-Impacts-on-Highway-Bridge-Piers.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Guidelines for Resolution of Steel Bridge Fabrication Errors - G2.2-2016 /

American Association of State Highway and Transportation Officials, Highway Subcommittee on Bridges and Structures, 2016 ; National Steel Bridge Alliance ; and AASHTO/NSBA Steel Bridge Collaboration -- Washington, DC : AASHTO ; [Chicago] : NSBA, 2016 (Publ. Code: NSBAGRSB-1), 76 pp.

https://bookstore.transportation.org/free_publications.aspx?ItemID=2698

Guidelines to Design for Constructability - G12.1 - 2016 /

American Association of State Highway and Transportation Officials, Highway Subcommittee on Bridges and Structures, 2016 ; National Steel Bridge Alliance ; and AASHTO/NSBA Steel Bridge Collaboration -- 3rd edition -- Washington, DC : AASHTO ; [Chicago] : NBSA, 2016 (Publ. Code: NSBAGDC-3), 63 pp.

https://bookstore.transportation.org/my_bookstore.aspx?Action=Editpaidpubs

Heavy Vehicle Load Simulator for Bridge Deck Testing Application: Volume I - Volume II/

Patrick Szary et al. -- Piscataway, NJ : Rutgers, the State University of New Jersey, Center for Advanced Infrastructure and Transportation (CAIT) ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2016-10 (FHWA-NJ-2016-005), in 2 volumes, 58 pp., 65 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-005-Volume-I.pdf> ; <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-005-Volume-II.pdf> ; <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-005-TB.pdf>

Highway Bridges: Linking Funding to Conditions May Help Demonstrate Impact of Federal Investment - Report to Congressional Committees /

United States Government Accountability Office -- Washington, DC : USGAO, 2016-09 (GAO-16-779), 43 pp. <http://www.gao.gov/assets/680/679743.pdf>

Steel Bridge Fabrication Guide Specification - S2.1-2016 /

AASHTO/NSBA Steel Bridge Collaboration -- 3rd edition -- Washington, DC : American Association of State Highway and Transportation Officials ; [Chicago] : National Steel Bridge Alliance, 2016 (NSBASBF-3), 56 pp.

https://bookstore.transportation.org/free_publications.aspx?ItemID=2696

Structures /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2592), 168 pp. <http://www.trb.org/Publications/Blurbs/175207.aspx>

Updating HEC-18 Pier Scour Equations for Noncohesive Soils /

Haoyin Shan et al. -- Hampton, VA : GENEX SYSTEMS, LLC ; MacLean, VA : Federal Highway Administration, Turner-Fairbank Highway Research Center, 2016-10 (FHWA-HRT-16-045), 32 pp.

<http://www.fhwa.dot.gov/publications/research/infrastructure/structures/bridge/16045/16045.pdf>

Using Building Information Modeling to Track and Assess the Structural Condition of Bridges /

Brendan Michael McGuire et al. -- Fort Collins, CO : Colorado State University, Dept. of Civil and Environmental Engineering ; Mountain-Plains Consortium, 2016-08 (MPC 16-310), 186 pp. <http://www.ugpti.org/resources/reports/downloads/mpc16-310.pdf>

Construction

Analysis of Construction Quality Assurance Procedures on Federally Funded Local Public Agency Projects /

Linda Karen Konrath, Leslie Ann McCarthy, and Sidney Scott -- Philadelphia, PA : Hill International, Inc. ; McLean, VA : Federal Highway Administration, Turner-Fairbank Highway Research Center, 2016-07 (FHWA-HRT-15-008), 218 pp.

<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/15008/index.cfm>

Construction /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2573), 171 pp. <http://www.trb.org/Main/Blurbs/175277.aspx>

Modernizing Road Construction Plans and Documentation /

Yelda Turkan and Jennifer S. Shane -- Ames, IA : Iowa State University, Institute for Transportation, Construction Management and Technology Program ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-09 (MN/RC 2016-29), 61 pp.

<http://www.dot.state.mn.us/research/TS/2016/201629.pdf>

Energy and Environment

Environmental Impacts of Oil and Gas Brine Applications for Dust and Ice Control in New York /

Jessica M. Wilson -- Riverdale, NY : Manhattan College, Dept. of Civil and Environmental Engineering ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-04, 34 pp. http://www.utrc2.org/sites/default/files/Final-Report-Environmental-Impacts-of-Oil-and-Brine.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Evaluating Wildlife Mortality Hotspots, Habitat Connectivity and Potential Accommodation along US 287 and MT 87 in the Madison Valley, Montana /

Angela Kociolek et al. -- Bozeman, MT : Montana State University, Western Transportation Institute ; Montana Dept. of Transportation, Research Programs, 2016-11 (FHWA/MDT 16-016/8217-001), 229 pp.
http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/madison_valley/Final_Report.pdf

Evaluation of Effectiveness and Cost-Benefits of Woolen Roadside Reclamation Products: Field Tests - Task 4 Report /

Rob Ament, Monica Pokorny, and Stuart Jennings -- Helena, MT : Montana Dept. of Transportation, 2016-12, 28 pp.
http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/wool_test/Task_4.pdf

Guidance on Biogas Quality and RIN Generation when Biogas is Injected into a Commercial Pipeline for use in Producing Renewable CNG or LNG under the Renewable Fuel Standard Program /

U.S. Environmental Protection Agency, Office of Transportation and Air Quality, Compliance Division -- Washington, DC : USEPA, 2016-09 (EPA-420-B-16-075), 6 pp.
https://www.epa.gov/sites/production/files/2016-09/documents/420b16075_0.pdf

A Literature Review of Freshwater Mussel Survey and Relocation Guidelines /

Michael Hart et al. -- Dallas, TX : Texas A&M University, Institute of Renewable Natural Resources ; Austin, TX : Texas Dept. of Transportation, 2016-08 (Project No. 0-6865), 47 pp.
<http://library.ctr.utexas.edu/hostedpdfs/0-6865.pdf>

Modeling Emissions and Environmental Impacts of Transportation Activities Associated with High Volume Horizontal Hydraulic Fracturing Operations in the Marcellus Shale Formation /

Kari Korfmacher, Alyssa Mathews, and Katelljn Van Munster -- Rochester, NY : Rochester Institute of Technology, Laboratory for Environmental Computing and Decision-Making ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-05, 60 pp. http://www.utrc2.org/sites/default/files/Final-Report-Modeling-Emissions-and-Environmental-Impacts-Of-Transportation.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Strengthening the Safety Culture of the Offshore Oil and Gas Industry /

Transportation Research Board, Committee on Offshore Oil and Gas Industry Safety Culture, Marine Board, and Board on Human-Systems Integration, Division of Human Behavioral and Social Sciences and Education -- Washington, DC : TRB, 2016 (Special Report 321), 223 pp. <http://www.trb.org/Publications/Blurbs/174395.aspx>

Technology Pathways for Diesel Engines Used in Non-Road Vehicles and Equipment /

Tim Dallmann and Aparna Menon -- Washington, DC : International Council on Clean Transportation, 2016-09, 47 pp. http://www.theicct.org/sites/default/files/publications/Non-Road%20Tech%20Pathways%20White%20Paper%20vF_ICCT_20160915.pdf

Freight / Goods Movement

Impact of Freight on Highway Infrastructure in New Jersey /

Hani Nassif et al. -- Piscataway, NJ : Rutgers, State University of New Jersey, Dept. of Civil and Environmental Engineering, Rutgers Infrastructure Monitoring and Evaluation (RIME) Group ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2015-09 (FHWA-NJ-2016-004), 222 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-004.pdf>

Geotechnical

Geological, Geoenvironmental, and Geotechnical Engineering - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2578), 101 pp. <http://www.trb.org/Publications/Blurbs/175176.aspx>

Highway Design

Roadside Safety Design and Devices - International Workshop /

Standing Committee on Roadside Safety Design ; Rod Troutbeck and Andrew Burbridge, editors -- Washington, DC : Transportation Research Board, 2016-11 (Transportation Research Circular E-C215), 162 pp. <http://onlinepubs.trb.org/Onlinepubs/circulars/ec215.pdf>

Use of Narrow Lanes and Narrow Shoulders on Freeways: A Primer on Experiences, Current Practice, and Implementation Considerations /

L. Neudorff et al. -- Washington, DC : CH2M ; Kittelson & Associates, Inc. ; U.S. Dept. of Transportation, Federal Highway Administration, Office of Operations, 2016-07 (FHWA-HOP-16-060), 60 pp. <http://www.ops.fhwa.dot.gov/publications/fhwahop16060/fhwahop16060.pdf>

Intelligent Transportation Systems (ITS)

Best Practices Guidebook for Preparing Texas for Connected and Automated Vehicles /

Kara Kockelman et al. -- Austin, TX : University of Texas at Austin, Center for Transportation Research ; Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-10 (0-6849-P1), 38 pp. <http://library.ctr.utexas.edu/ctr-publications/0-6849-1.pdf>

Cross-Border ITS Systems with Traffic Management Centers: Technical Report /

Roberto Macias et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX: Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-10 (FHWA/TX-16/0-6879-1), 164 pp. <http://tti.tamu.edu/documents/0-6879-1.pdf>

Implications of Connected and Automated Vehicles on the Safety and Operations of Roadway Networks: A Final Report /

Kara Kockelman et al. -- Austin, TX : University of Texas at Austin, Center for Transportation Research ; Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-10 (FHWA/TX-16/0-6849-1), 250 pp. <http://library.ctr.utexas.edu/ctr-publications/0-6849-1.pdf>

Intelligent Transportation Systems and Connected and Automated Vehicles /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2559), 140 pp. <http://www.trb.org/Publications/Blurbs/175448.aspx>

Legal Issues

Summary of Federal Law Restricting Use of Highway Safety Data in Tort Litigation /

Terri Parker and James B. McDaniel -- Washington, DC : Transportation Research Board, 2016-12 (Legal Research Digest 72), 64 pp.

Marine / Waterways

Port Resilience: Overcoming Threats to Maritime Infrastructure and Operations from Climate Change /

Thomas Wakeman, Jon Miller, and Grace Python -- Hoboken, NJ : Stevens Institute of Technology, Davidson Laboratory ; New York : City College of New York, University Transportation Research Center - Region 2, 2015-12, 48 pp.
http://www.utrc2.org/sites/default/files/Final-Report-Port-Resilience-Overcoming-Threats-to-Maritime-Infrastructure.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Materials

Asphalt Materials and Mixtures - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2574), 143 pp. <http://www.trb.org/Publications/Blurbs/175178.aspx>

Asphalt Materials and Mixtures - Volume 3 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2576), 120 pp. <http://www.trb.org/Publications/Blurbs/175445.aspx>

Dimensional Stability of Grout-Like Materials Used in Field-Cast Connections [TechSummary] /

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2016-12 (FHWA-HRT-16-080), 12 pp.
<http://www.fhwa.dot.gov/publications/research/infrastructure/structures/bridge/16080/16080.pdf>

Evaluation of Portland Cement Concrete with Internal Curing Capabilities /

Tyson D. Rupnow et al. -- Baton Rouge, LA : Louisiana Transportation Research Center ; Louisiana Dept. of Transportation and Development, 2016-09 (FHWA/LA.16/569), 56 pp.
http://www.ltrc.lsu.edu/pdf/2016/FR_569.pdf

First International Interactive Symposium on UHPC [Electronic] /

Sri Sritharan, Kay Wille, and Benjamin Graybeal, co-chairs -- Des Moines, IA : Iowa State University, 2016, 77 symposium papers

<http://register.extension.iastate.edu/uahpc2016/attendance/symposium-papers>

Laser Scanning Aggregates for Real Time Property Identification /

Beena Sukumaran, Michael Lim, and Ravi Ramachandran -- Glassboro, NJ : Rowan University, Dept. of Civil Engineering ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2016-12 (FHWA-NJ-2016-006), 77 pp.

<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-006.pdf> ;

<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-006-TB.pdf>

Maximum Heat of Mass Concrete - Phase 2 /

Mang Tia et al. -- Gainesville, FL : University of Florida, College of Engineering, Dept. of Civil and Coastal Engineering ; Tallahassee, FL : Florida Dept. of Transportation, 2016-11 (FDOT Project No. BDV31-977-07), 416 pp.

http://www.fdot.gov/research/Completed_Proj/Summary_SMO/FDOT-BDV31-977-07-rpt.pdf

Methods for Evaluating and Treating ASR-Affected Structures: Results of Field Application and Demonstration Projects - Volume I: Summary of Findings and Recommendations - Final Report /

Michael D.A. Thomas et al. -- Austin, TX : The Transtec Group ; Washington, DC : Federal Highway Administration, Office of Pavement Technology, 2013-11 (FHWA-HIF-14-002), 80 pp. <https://www.fhwa.dot.gov/pavement/concrete/asr/pubs/hif14002.pdf> ;

<https://permanent.access.gpo.gov/gpo53607/v.1/hif14002.pdf>

Methods for Preventing ASR in New Construction: Results of Field Exposure Sites /

Michael D.A. Thomas et al. -- Austin, TX : The Transtec Group ; Washington, DC : Federal Highway Administration, Office of Pavement Technology, 2013-12 (FHWA-HIF-14-004), 36 pp. <https://www.fhwa.dot.gov/pavement/concrete/asr/pubs/hif14004.pdf>

Nitrogen Dioxide Sequestration Using Demolished Concrete and Its Potential Application in Transportation Infrastructure Development /

Alexander Orlov -- Stony Brook, NY : Stony Brook University, Dept. of Materials Science and Engineering ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-04, 23 pp. http://www.utrc2.org/sites/default/files/Final-Report-Nitrogen-Dioxide-Sequestration.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Operations and Maintenance

Evaluating the Use of Tow Plows in Michigan /

Nishantha Bandara, Elin Jensen, and Frank Holt -- Southfield, MI : Lawrence Technological University ; Lansing, MI : Michigan Dept. of Transportation, Research Administration, 2016-09 (MDOT Research Project No. OR14-006 ; SPR 1623), 227 pp.

http://www.michigan.gov/documents/mdot/SPR1623_TowPlows_537649_7.pdf

Evaluation of Software Simulation of Road Weather Information System /

William R. Vavrik et al. -- Champaign, IL : Applied Research Associates, Inc. ; Springfield, IL : Illinois Dept. of Transportation (SPR) Bureau of Materials and Physical Research, 2016-09 (FHWA-ICT-16-018), 46 pp. <https://apps.ict.illinois.edu/projects/getfile.asp?id=5037>

Maintenance Services, Transportation Weather, and Winter Maintenance /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2551), 145 pp. <http://www.trb.org/Publications/Blurbs/175084.aspx>

Pavements

Alternatives to Nuclear Density Testing /

Yusuf Mehta and Ayman Ali -- Glassboro, NJ : Rowan University, College of Engineering ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2016 (FHWA-NJ-2016-003), 107 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2016-003.pdf>

Continuously Reinforced Concrete Pavement Manual: Guidelines for Design, Construction, Maintenance, and Rehabilitation /

Jeffrey R. Roesler, Jacob E. Hiller, and Alexander S. Brand -- [Urbana, IL] : University of Illinois at Urbana-Champaign ; [Washington, DC] : U.S. Dept. of Transportation, Federal Highway Administration, 2016-08 (FHWA-HIF-16-026), 129 pp. <http://www.fhwa.dot.gov/pavement/concrete/pubs/hif16026.pdf>

Framework for a Pavement-Maintenance Database System /

George White et al. -- Washington, DC : Transportation Research Board, 2016 (NCHRP Report 820), 130 pp., includes 2 CD-ROMs <http://www.trb.org/Publications/Blurbs/175480.aspx>

International Experience and Perspective of Pavement Texture Measurements and Evaluation - Synopsis of a Workshop: 94th Annual Meeting of the Transportation Research Board, Session 123 /

Brian L. Schleppi, Magdy Y. Mikhail, and George K. Chang -- Washington, DC : Transportation Research Board, 2016-11 (Transportation Research Circular E-C216), 106 pp. <http://onlinepubs.trb.org/Onlinepubs/circulars/ec216.pdf>

Long-Term Pavement Performance Program - Pavement Performance Measures and Forecasting and the Effects of Maintenance and Rehabilitation Strategy on Treatment Effectiveness [TechBrief] /

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2016-08 (FHWA-HRT-16-046), 16 pp. https://www.fhwa.dot.gov/pavement/pub_details.cfm?id=1010

Nondestructive Evaluation of Pavement Structural Condition for Rehabilitation Design /

Hao Wang and Maoyun Li -- Piscataway, NJ : Rutgers, The State University of New Jersey, Dept. of Civil and Environmental Engineering ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-05, 32 pp.

http://www.utrc2.org/sites/default/files/Final-Report-Nondestructive-Evaluation-of-Pavement.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Pavement Management - Volume 3 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2591), 129 pp. <http://www.trb.org/Publications/Blurbs/175139.aspx>

Pavement Structural Evaluation at the Network Level: Final Report /

Gonzalo R. Rada et al. -- Beltsville, MD : Amec Foster Wheeler Environment & Infrastructure, Inc. ; El Paso, TX : University of Texas at El Paso, Center for Transportation Infrastructure Systems ; Reno, NV : University of Nevada Reno, Dept. of Civil and Environmental Engineering ; McLean, VA : Federal Highway Administration, Turner-Fairbank Highway Research Center, 2016-09 (FHWA-HRT-15-074), 286 pp.

<http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/15074/15074.pdf>

Performance Evaluation and Specification of Trackless Tack /

Bryan Wilson, Ah Young Seo, and Maryam Sakhaeifar -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Technology Implementation Office, 2016-09 (FHWA/TX-16/0-6814-1), 142 pp.

<http://tti.tamu.edu/documents/0-6814-1.pdf>

Portland Cement Concrete Pavement Thickness Variation Versus Observed Pavement Distress /

Lev Khazanovich -- Minneapolis, MN : University of Minnesota, Dept. of Civil, Environmental, and Geo-Engineering ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, 2016-09 (MN/RC 2016-30), 50 pp.

<http://www.cts.umn.edu/Publications/ResearchReports/reportdetail.html?id=2548>

Planning

Assessing Segment- and Corridor-Based Travel-Time Reliability on Urban Freeways /

Jing Dong et al. -- Ames, IA : Iowa State University, Center for Transportation Research and Education ; Midwest Transportation Center, 2016-09, 87 pp.

http://www.intrans.iastate.edu/research/documents/research-reports/segment-_and_corridor-based_travel_time_reliability_w_cvr.pdf

City Power: Urban Governance in a Global Age /

Richard Schragger -- New York : Oxford University Press, 2016, 322 pp.

Data and Methods to Understand Travel /

Transportation Research Board -- Washington, DC ; TRB, 2016 (Transportation Research Record No. 2594), 168 pp. <http://www.trb.org/Publications/Blurbs/175208.aspx>

The Effect that State and Federal Housing Policies Have on Vehicle Miles of Travel /

Matthew Palm and Debbie Niemeier -- Davis, CA : University of California-Davis, Institute of Transportation Studies, National Center for Sustainable Transportation (NCST), 2016-11, 87 pp.
<https://ncst.ucdavis.edu/wp-content/uploads/2015/09/11-10-2016-FINAL-The-Effect-that-State-and-Federal-Housing-Policies-Have-on-Vehicle-Miles-of-Travel.pdf>

Exploring New Directions for the National Household Travel Survey: Phase Two Report of Activities /

Transportation Research Board, Task Force on Understanding New Directions for the National Household Travel Survey -- Washington, DC: TRB, 2016-12 (Transportation Research Circular E-C217), 40 pp. <http://onlinepubs.trb.org/Onlinepubs/circulars/ec217.pdf>

Human Factors, User Requirements, and User Acceptance of Ride-Sharing in Automated Vehicles - Draft Discussion Paper /

Natasha Merat, Ruth Madigan, and Sina Nordhoff -- [Paris, France] : Organisation for Economic Co-operation and Development (OECD), International Transport Forum, 2016-12, 26 pp.
<http://www.itf-oecd.org/sites/default/files/docs/human-factors-user-requirements-acceptance-ride-sharing.pdf>

Identifying the Leading Regional Electric Vehicle Markets in the United States /

Irene Kwan et al. -- [Washington, DC] : International Council on Clean Transportation (ICCT), 2016-11 (ICCT Working Paper 2016-20), 21 pp.
http://www.theicct.org/sites/default/files/publications/US%20Regional%20EV%20Markets_working-paper_ICCT_10112016.pdf

Integrated Corridor Management and the Smart Cities Revolution: Leveraging Synergies [Fact Sheet] /

Diane Newton et al. -- Reston, VA : Leidos ; Oakland, CA : DKS Associates ; Washington, DC : U.S. Dept. of Transportation, Federal Highway Administration, 2016-10 (FHWA-HOP-16-075), 28 pp. <http://www.ops.fhwa.dot.gov/publications/fhwahop16075/fhwahop16075.pdf>

Network Modeling /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2567), 138 pp. <http://www.trb.org/Publications/Blurbs/175311.aspx>

Planning /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2568), 112 pp. <http://www.trb.org/Publications/Blurbs/175313.aspx>

Roads in New Jersey: The Fiscal Implications of Development Patterns /

Smart Growth America and New Jersey Future -- Washington, DC : Smart Growth America ; Trenton, NJ : New Jersey Future, 2015-11, 11 pp.
<https://smartgrowthamerica.org/app/uploads/2016/08/fiscal-implications-roads-in-new-jersey.pdf>
; <http://www.njfuture.org/wp-content/uploads/2015/11/fiscal-implications-roads-in-new-jersey.pdf>

Sample Size Implications of Multi-Day GPS-Enabled Household Travel Surveys /

Louis Rizzo and Gregory D. Erhardt -- Washington, DC : Transportation Research Board, 2016-10 (Research Results Digest 400), 34 pp. <http://www.trb.org/Publications/Blurbs/175358.aspx>

Socioeconomics, Sustainability, Health, and Human Factors /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2598), 123 pp. <http://www.trb.org/Publications/Blurbs/175114.aspx>

Travel Behavior - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2566), 110 pp. <http://www.trb.org/Publications/Blurbs/175444.aspx>

Travel Demand Forecasting - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2563), 160 pp. <http://www.trb.org/Publications/Blurbs/175276.aspx>

Rail

Our Future on Track: Highlights of the Tier 1 Final Environmental Impact Statement [Brochure] /

Federal Railroad Administration, NEC Future, A Rail Investment Plan for the Northeast Corridor (Program) -- [New York]: U.S. Dept. of Transportation, FRA, 2016-12, 8 pp. <http://www.necfuture.com/>

Reference

Breadth Practice Exam for the Civil PE: Practice Exam No. 1 /

PE-Exam.com -- 2nd edition -- Belmont, CA : Professional Publications, Inc. (PPI), 2012, 22 pp.

Civil Engineering Formulas /

Tyler G. Hicks -- 2nd edition -- New York : McGraw-Hill, 2010, 395 pp.

Civil PE Practice Examination - Sixth Edition /

Michael R. Lindeburg -- 6th edition -- Belmont, CA : Professional Publications, Inc., 2015, 156 pp.

A Dictionary of Civil, Water Resources & Environmental Engineering /

Harry C. Friebel -- Berlin, NJ : Golden Ratio Publishing, 2013, 450 pp.

Quick Reference for the Civil Engineering PE Exam - Ninth Edition /

Michael R. Lindeburg -- 9th edition -- Belmont, CA : Professional Publications, Inc., 2016, 139 pp.

Structural Engineering Practice Exam /

National Council of Examiners for Engineering and Surveying -- Clemson, SC : NCEES, 2014, 238 pp.

Research

Critical Issues in Transportation: 2013 /

Transportation Research Board -- Washington, DC : TRB, 2013-09, 15 pp. <http://www.trb.org/main/blurbs/169945.aspx>

Research Makes the Difference 2016: Innovative State DOTs Advance Transportation [Brochure] /

American Association of State Highway and Transportation Officials, Standing Committee on Research, Research Advisory Committee -- [Washington, DC] : CTC & Associates LLC, 2016, 4 pp. http://research.transportation.org/Documents/RAC%20Docs/ResearchMakesTheDifference2016_WEB.pdf

XXVth World Road Congress - Roads and Mobility: Creating New Value from Transport [Electronic] /

PIARC-World Road Association / AICPR-Association Mondiale de la Route -- Paris : PIARC/AICPR, 2016, website <http://proceedings.seoul2015.piarc.org/en/>

Right-of-Way

Barriers to Right-of-Way Acquisition and Recommendations for Change /

David Jeong et al. -- Ames, Iowa : Iowa State University, Institute for Transportation ; St. Paul, MN : Minnesota Dept. of Transportation, Research Services & Library, Minnesota Local Road Research Board, 2016-08 (MN/RC 2016-28), 130 pp. <http://www.dot.state.mn.us/research/TS/2016/201628.pdf>

International Practice in Highway Access Management - A Primer /

Kristine Williams, Basil Psarianos, et al. -- Washington, DC : Transportation Research Board, 2016-09 (Transportation Research Circular E-C214), 106 pp. <http://onlinepubs.trb.org/Onlinepubs/circulars/ec214.pdf>

Safety & Human Performance

Acute Sleep Deprivation and Risk of Motor Vehicle Crash Involvement /

Brian C. Tefft -- Washington, DC : AAA Foundation for Traffic Safety, 2016-12, 21 pp. <https://www.aaafoundation.org/sites/default/files/AcuteSleepDeprivationCrashRisk.pdf>

An Assessment of Traffic Safety Culture Related to Driving After Cannabis Use /

Jay Otto, Kari Finley, and Nicholas J. Ward -- Bozeman, MT : Montana State University, Western Transportation Institute, Center for Health and Safety Culture ; Helena, MT : Montana Dept. of Transportation, 2016-11 (FHWA/MT-16-010/8882-001-02), 80 pp. http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/tsc/DUIC_FINAL_Report.pdf

Briefing Sheets on Safety and Operations of Rural Two-Lane Highways /

Kay Fitzpatrick et al. -- College Station, TX : Texas A&M Transportation Institute ; Austin, TX : Texas Dept. of Transportation, Research and Implementation Office, 2016-11 (FHWA/TX-16/0-6806-TTI-P1), 16 pp. <http://tti.tamu.edu/documents/0-6806-TTI-P1.pdf>

Exploratory Analysis of Augmented Reality Visualization for Right-of-Way Excavation Safety /

Elham H. Fini et al. -- Washington, DC : Transportation Research Board, 2016-07 (NCHRP IDEA Project 167), 45 pp. <http://www.trb.org/Main/Blurbs/175410.aspx>

Fatigue-Related Fatal Collisions in Canada, 2000-2013 [Fact Sheet] /

Traffic Injury Research Foundation -- Ottawa, Ontario, Canada : TIRF, 2016-10 (16M), 6 pp.
<http://tirf.ca/2016/10/19/new-tirf-fact-sheets-fatigue-related-fatal-collisions-canada-2000-2013-role-driver-age-fatally-injured-drivers-canada-2000-2013/>

Improved Methodologies in Modeling and Predicting Failure in AASHTO M-180 Guardrail Steel Using Finite Element Analysis - Phase I /

Brandt M. Humphrey et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, 2016-08 (TRP-03-333-16), 452 pp.

Manual for Assessing Safety Hardware /

American Association of State Highway and Transportation Officials, Highways Subcommittee on Design 2016, Highways Subcommittee on Bridges and Structures 2016, and Technical Committee on Roadside Safety 2016 -- 2nd edition -- Washington, DC : AASHTO, 2016, 279 pp. <https://bookstore.transportation.org/> - Login Acct: DRM00062433 ; Password: library

Multivehicle Work Zone Crash on Interstate 95, Cranbury, New Jersey, June 7, 2014 - Accident Report /

National Transportation Safety Board -- Washington, DC : NTSB, 2015-08 (NTSB/HAR-15/02 ; PB2015-105186), 84 pp.
<http://www.nts.gov/investigations/AccidentReports/Reports/HAR1502.pdf>

Operator Education and Regulation; Safe Mobility for Older Persons; Traffic Law Enforcement; Occupant Protection; Alcohol and Other Drugs /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2584), 103 pp. <http://www.trb.org/Publications/Blurbs/175138.aspx>

Pedestrian Hybrid Beacon [Brochure] /

New Jersey Department of Transportation -- Trenton, NJ : NJDOT, 2012, 1 p.
http://www.state.nj.us/transportation/about/press/2012/documents/ped_hybrid_beacon.pdf

Post-Crash Response: Supporting Those Affected by Road Traffic Crashes /

World Health Organization -- Geneva, Switzerland : WHO, 2016, 24 pp.
http://www.who.int/violence_injury_prevention/publications/road_traffic/Post-crash_response_booklet.pdf

The Role of Driver Age in Fatally Injured Drivers in Canada, 2000-2013 [Fact Sheet] /

Traffic Injury Research Foundation -- Ottawa, Ontario, Canada : TIRF, 2016-10 (16L), 5 pp.
<http://tirf.ca/publications/role-driver-age-fatally-injured-drivers-canada-2000-2013/>

Seat Belt Use in 2016 - Overall Results [TechSummary] /

National Highway Traffic Safety Administration -- Washington, DC : U.S. Dept. of Transportation, NHTSA, 2016-11 (DOT HS 812 351), 4 pp.
<https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812351>

Seat Belt Use on North Dakota Rural Roads, 2016 /

Kimberly Vachal and Laurel Benson -- Fargo, ND : North Dakota State University, Upper Great Plains Transportation Institute ; North Dakota Dept. of Transportation, Safety Division, 2016-09 (Department Publication No. 289), 37 pp. <http://www.ugpti.org/resources/reports/downloads/dp-289.pdf>

Sign Effectiveness Guide /

David Veneziano and Keith Knapp -- Ames, IA : Iowa State University, Iowa Local Technical Assistance Program ; Iowa Dept. of Transportation, Iowa Highway Research Board, 2016-11 (IHRB Project TR-686 ; InTrans Project 15-527), 112 pp.
http://www.intrans.iastate.edu/research/documents/research-reports/sign_effectiveness_guide_w_cvr.pdf

Statistical Methods and Highway Safety Performance /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No.2583), 141 pp. <http://www.trb.org/Publications/Blurbs/175142.aspx>

Toward Zero Deaths: A National Strategy on Highway Safety /

Toward Zero Deaths Steering Committee -- TowardZeroDeaths.org, 2014, 92 pp.
http://www.towardzerodeaths.org/wp-content/uploads/TZD_Strategy_12_1_2014.pdf

Truck and Bus Safety; Roundabouts /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2585), 84 pp. <http://www.trb.org/Publications/Blurbs/175071.aspx>

Security

Transforming Security at Airports: An Update on Progress and a Plan for the Future of Aviation Security /

U.S. Travel Association, TSA Task Force -- Washington, DC : U.S. Travel Association, 2016, 32 pp.
https://www.ustravel.org/system/files/Media%20Root/Document/TSA_Report_Transforming_Security_Airports.pdf

Traffic

ANSI/IES RP-22-11: American National Standard Practice for Tunnel Lighting /

IES Roadway Lighting Committee, Subcommittee on Tunnel Lighting -- New York : Illuminating Engineering Society of North America, 2011 (IESNA Recommended Practice), 43 pp.

ANSI/IES RP-8-14: Roadway Lighting /

IES Roadway Lighting Committee -- New York : Illuminating Engineering Society of North America, 2014 (IESNA Recommended Practice), 50 pp.

Evaluation of the Impact of the I-66 Active Traffic Management System /

PilJin Chun and Michael D. Fontaine -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2016-09 (VTRC 17-R5), 70 pp.
http://www.virginiadot.org/vtrc/main/online_reports/pdf/17-r5.pdf

Freeway Operations; Regional Systems Management and Operations; Managed Lanes /
Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2554), 176 pp. <http://www.trb.org/Publications/Blurbs/175314.aspx>

Highway Capacity and Quality of Service /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2553), 160 pp. <http://www.trb.org/Publications/Blurbs/175175.aspx>

Operational Effects of Geometrics and Access Management /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2556), 97 pp. <http://www.trb.org/Publications/Blurbs/175115.aspx>

Speed Limits Set Lower than Engineering Recommendations - Final Report /

Eric T. Donnell et al. -- University Park, PA : Pennsylvania State University, Thomas D. Larson Pennsylvania Transportation Institute ; [Helena, MT] : Montana Dept. of Transportation, Research Programs, 2016-08 (FHWA/MT-16-008/8225-01), 127 pp.
http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/speed_limit_lower/Final_Report.pdf

Traffic Bottlenecks: Identification and Solutions [TechBrief] /

Federal Highway Administration -- Washington, DC : U.S. Dept. of Transportation, FHWA, 2016-11 (FHWA-HRT-17-019), 4 pp.
<http://www.fhwa.dot.gov/publications/research/operations/17019/17019.pdf>

Traffic Engineering Handbook - Seventh Edition /

Anurag Pande and Brian Wolshon, co-editors; Institute of Transportation Engineers -- 7th ed. -- Hoboken, NJ : John Wiley & Sons, Inc., 2016, 668 pp.

Traffic Flow Theory and Characteristics - Volume 1 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2560), 118 pp. <http://www.trb.org/Publications/Blurbs/175447.aspx>

Traffic Prediction Using Wireless Cellular Networks /

Sabiha Wadoo -- Old Westbury, NY : New York Institute of Technology ; New York : City College of New York, University Transportation Research Center - Region 2, 2016-03, 30 pp.
http://www.utrc2.org/sites/default/files/Final-Report-Traffic-Prediction-Using-Wireless-Cellular-Networks.pdf?utm_source=09-27-16+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email

Traffic Signal Systems - Volume 2 /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2558), 102 pp. <http://www.trb.org/Publications/Blurbs/175310.aspx>

Transit

13th National Light Rail and Streetcar Conference: Transforming Urban Areas /

Transportation Research Board and American Public Transportation Association -- Washington, DC : TRB, 2016-09 (Transportation Research Circular E-C213), 484 pp.
<http://onlinepubs.trb.org/Onlinepubs/circulars/ec213.pdf>

Audience Measurement for Transit Advertising /

Kelly McGillivray, Michael Latka, and Evelyn Field -- Washington, DC : Transportation Research Board, 2012-04 (TCRP Web-Only Document 57), 141 pp.

<http://www.trb.org/Publications/Blurbs/167719.aspx>

Decision Analysis to Address Extreme Weather: Extreme Weather Effects on Ridership and Modeling the Decision to Invest in Canopy Coverage - Draft Report /

Qing Miao, Eric Welch, and P.S. Sriraj -- [Chicago : University of Illinois at Chicago, Urban Transportation Center] ; [Tampa], FL : University of South Florida, Center for Urban Transportation Research, 2016-09, 30 pp. <https://utc.uic.edu/wp-content/uploads/Decision-Analysis-to-Address-Extreme-Weather-CTA-and-UTA-studies.pdf> ;

<https://utc.uic.edu/research/decision-analysis-to-address-extreme-weather-extreme-weather-effects-on-ridership-and-modeling-the-decision-to-invest-in-canopy-coverage/>

Guidebooks for Estimating Total Transit Usage through Extrapolating Incomplete Counts/

Xuehao Chu -- Tampa, FL : University of South Florida, Center for Urban Transportation Research, National Center for Transit Research (NCTR) ; Tallahassee, FL : Florida Dept. of Transportation ; Washington, DC : U.S. Dept. of Transportation, Research and Innovative Technology Administration, 2016-09 (DTRT-12-G-UTC22 Mod 2), 103 pp.

<http://www.nctr.usf.edu/wp-content/uploads/2016/09/Guidebooks-for-Estimating-Total-Transit-Usage-FINAL.pdf>

National Survey of US Public Transit Agency Experience with and Response to Extreme Weather Events /

Eric Welch et al. -- [Chicago : University of Illinois at Chicago, Urban Transportation Center] ; [Tampa], FL : University of South Florida, Center for Urban Transportation Research, 2016-09, 33 pp. <https://utc.uic.edu/wp-content/uploads/National-Survey-of-Transit-Agency-Extreme-Weather-Risks-and-Experiences-FINAL.pdf> ; <https://utc.uic.edu/research/national-survey-of-us-public-transit-agency-experience-with-and-response-to-extreme-weather-events/>

Public Transportation - Volume 1: Urban and Rural Bus Services /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2539), 187 pp. <http://www.trb.org/Publications/Blurbs/175177.aspx>

Public Transportation - Volume 4: Paratransit, Accessibility, Mobility, and the Sharing Economy /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2542), 126 pp. <http://www.trb.org/Publications/Blurbs/175449.aspx>

Transit Asset Management Guide: Focusing on the Management of Our Transit Investments /

Parsons Brinckerhoff, Inc. et al., updated by U.S. DOT Volpe National Transportation Systems Center et al. -- Washington, DC : U.S. Dept. of Transportation, Federal Transit Administration, Office of Research, Demonstration and Innovation, 2012-10 (FTA Report No. 0098), 272 pp.

https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Report_No._0098.pdf

Work Zones

Improving the Effectiveness of Smart Work Zone Technologies /

Yanning Li, Juan Carlos Martinez Mori, and Daniel Work -- Urbana, IL : University of Illinois at Urbana-Champaign, Dept. of Civil and Environmental Engineering, Illinois Center for Transportation ; Springfield, IL : Illinois Dept. of Transportation, Bureau of Material and Physical Research, 2016-11 (FHWA-ICT-16-021), 130 pp.

<https://apps.ict.illinois.edu/projects/getfile.asp?id=5074>

Optimizing Work Zone Lighting /

John D. Bullough and Mark S. Rea -- Troy, NY : Rensselaer Polytechnic Institute, Lighting Research Center ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2016-10 (NJ-2016-004), 60 pp. <http://www.state.nj.us/transportation/refdata/research/reports/NJ-2016-004.pdf>

Visibility and Work Zone Traffic Control /

Transportation Research Board -- Washington, DC : TRB, 2016 (Transportation Research Record No. 2555), 119 pp. <http://www.trb.org/Publications/Blurbs/175143.aspx>

APPENDIX E
OPEN HOUSE FLYER/POSTER

From Here to the Cloud ... Access via your Library



OPEN HOUSE

THURSDAY, SEPTEMBER 17, 2015
11 AM - 2 PM

 **NJDOT**
Research Library

E&O 1st Floor

Light refreshments

APPENDIX F
TRAINING MATERIALS

The NJDOT Research Library



"Your Knowledge Sharing Partner"

NJDOT Bureau of Research
December 14, 2015

Overview

- **Mission:** *To provide knowledge services to NJDOT and beyond . . .*
- **A Short History . . .** 1962 -
- **Staffing** – 2 accredited librarians
- **Location/Hours:**
E&O 1st Floor
Monday - Friday 9 AM - 5 PM

Who We Serve

- NJDOT Staff
- NJ State Government
- Other State DOTs
- Federal and International Agencies
- Non-Profits and Universities
- Businesses in- and out-of-state
- The General Public – private citizens

3

Services to NJDOT

- Reference / Referral
- Document Delivery:
 - Loans - in-house or interlibrary
 - Photocopies
 - Printouts
 - PDFs
- Literature Searches

4

Services (*cont'd*)

- Expedited Research
- Collection Development and Maintenance
- Quarterly List of New Acquisitions
- Coordinated Purchases
- Routing Services
- Department-wide Initiatives / Knowledge Services

5

Resources

- NJDOT collections
- NJ State Library collections and databases
- TRID
- OCLC
- TRB and CRPs
- AASHTO
- US DOT – FHWA, NTL, etc.

6

Resources *(cont'd)*

- The NJDOT Library is “networked”:
 - Eastern Transportation Knowledge Network (ETKN)
 - SLA Tranlib discussion list
 - Transportation Library Connectivity Pooled Fund
 - AASHTO RAC TKN TF
 - OCLC – LVIS, LSTR
- NJDOT Staff and SMEs

7

Projects *(past, present and future ...)*

- NJDOT Online Directory
- *Many places – One Planet* – 9/11/2009 commemorative event
- Cataloging of the Research Library collection
- Resource Sharing Initiative
- Automated Organization Charts

8

Summary and Contact

When you need to know . . .

Contact:

NJDOT Research Library

Voice: 609-530-5289

Email: library@dot.nj.gov Laurie Strow
and/or

Carol.Paszamant@dot.nj.gov

APPENDIX G

***MANY PLACES – ONE PLANET* INTERACTIVE POSTER**

Photo of *MANY PLACES – ONE PLANET* INTERACTIVE POSTER with printed PowerPoint slides presented at 2010 NJ Library Association Conference



From New Jersey Department of Transportation employee newsletter, *Transporter*,
September 2009, page 4

NJDOT takes part in the September Projects “Many Places – One Planet”

NJDOT is taking part in the September Project, an international library event in association with September 11th festivities, that partners NJDOT with over 600 libraries in over 30 countries in providing a place for public discussions about issues related to citizenship and democracy.

Titled “Many Places – One Planet”, NJDOT staff has prepared a World Map to celebrate our diversity as people from many places, and our solidarity as people of One Planet. Employees are asked to place a pin in your country, state, and city of origin on the map located in the lobby outside the Multipurpose Room.

Quintin Viernes, Senior Engineer, Construction Services, pushes a pin into Manila Philippines.



APPENDIX H
WOMEN'S HISTORY MONTH MATERIALS

**New Jersey Department of Transportation celebrates
Women's History Month**



BRIDGE BUILDER IN PETTICOATS:

**Emily Warren Roebling
and the Brooklyn Bridge**

Presentation by
Carol Simon Levin
Somerset County Library System

Built between 1869 and 1883, without modern machines or even electric light, the **Brooklyn Bridge** was the one of the most amazing technological achievements of its time. Yet few people know that a woman helped supervise much of its construction.

**MARCH 14, 2013
12 NOON – 1 PM**

**New Jersey Dept of Transportation
1035 Parkway Ave, Trenton
Multipurpose Room
Questions: 609-530-5289
or Carol.Paszamant@dot.state.nj.us**



Carol Simon Levin



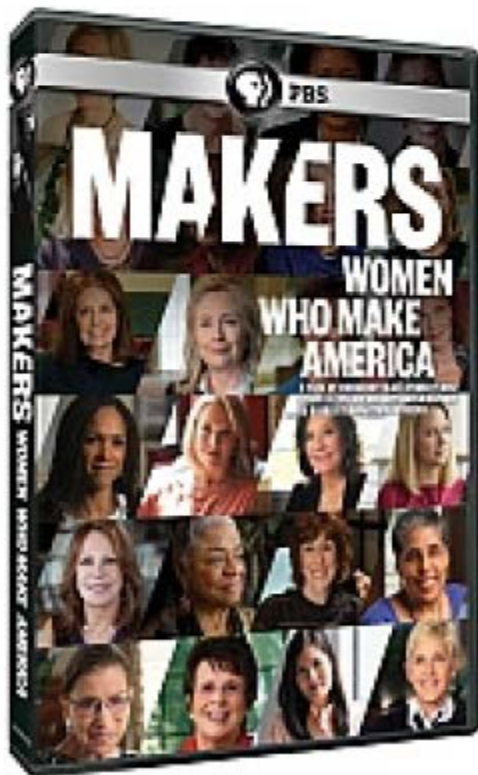
**Sponsored by
NJDOT Employee Memorial Committee**

*Some women bake,
other women make . . .
some do both -*

The NJDOT Office of Civil Rights

*presents **PBS's***

MAKERS: Women who make America



Parts 1 and 2

March 27th & 28th

Noon - 1 PM

Training Room A

E&O Building, 2nd Floor

NOT for women only!

“The most sweeping social
revolution in American his-
tory” in the past 50 years . . .

Hear the stories !!

More info: 609-530-3009

APPENDIX I
NEW JERSEY HUMAN TRAFFICKING TASK FORCE PRESENTATION POSTER

Be somebody's hero -

You can help stop
Human Trafficking



- **Learn** how to spot human trafficking incidences.
- **Find** out what to do if you become aware of such a situation.

... at a brown bag lunch

Wednesday December 8, 2010

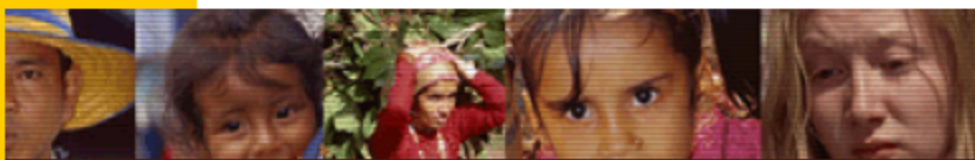
1:15 PM - 3 PM

Multipurpose Room

The **New Jersey Human Trafficking Task Force** *presents:*

What is Human Trafficking 101

This introductory training will provide a basic understanding of human trafficking, the crime and its victims. We will also discuss why New Jersey is a prime location for human trafficking and what New Jersey is doing to combat this criminal activity.



New Jersey Human Trafficking Task Force

Program coordinated by the NJDOT Research Library

APPENDIX J
ASCE LIBRARY WEBINAR



Webinar



The ASCE Library is a digital library that provides access to a high-quality collection of civil engineering content.

It contains articles from ASCE journals, papers from conference proceedings, and e-books and standards.



Tuesday, May 20th

2 –3 PM

Multipurpose Room

presented by

Bill Nara

Director, Publications Marketing
American Society of Civil Engineers



Learn tips to:

- **Browse journals**
- **Find articles or papers**
- **... and more**



NJDOT Research Library - your knowledge-sharing partner

APPENDIX K
EASTERN TRANSPORTATION KNOWLEDGE NETWORK TRIFOLD BROCHURE

25 MEMBERS
ACROSS
23 STATES



KEY

- ★ POOLED FUND MEMBERS
- WTKN
- MTKN
- ETKN
- # AASHTO REGIONS

CONNECT WITH US:
info@etkn.org • www.etkn.org

Brochure produced by the
Transportation Library Connectivity
and Development Pooled Fund Study, TPF-5(237)
© 2014 ETKN, TPF-5(237). All rights reserved.

Improving access to
**TRANSPORTATION
INFORMATION,
DATA + RESEARCH**



ETKN

is part of a local, regional and national movement to coordinate, manage and distribute transportation information.

WHO WE ARE

The Eastern Transportation Knowledge Network (ETKN) comprises member transportation organizations from the Eastern U.S.: AASHTO Regions 1 and 2. Members collaborate to manage and coordinate transportation information that is crucial to the industry and our nation's economy. Membership includes libraries representing state Departments of Transportation (DOTs), academic institutions, transit agencies, metropolitan planning organizations (MPOs) and private industry.



WHO WE SERVE

ETKN members work to benefit participating organizations, through collaboration and regular communication. ETKN also partners with other groups sharing an interest in improving access to and use of transportation information, such as AASHTO, TRB, and the Special Libraries Association Transportation Division.



WHAT WE PROVIDE

- Leadership and guidance in implementing knowledge services
- Expert searching and retrieval
- Interlibrary loans and document access
- Identification of and referral to subject matter experts
- Transportation research information management
- Development of and access to a national transportation knowledge network
- Regional forum for sharing transportation information practices and expertise

BENEFITS

- Professional support and advocacy
- Cutting edge transportation information
- Improved access to research
- Collaboration and industry impact
- Delivery of cost savings and efficiencies through shared resources


Join us


Utilize us


Advocate for us


Support us