TII Publications System Information Session

9 March 2016, Engineers Ireland



Introduction to the TII Publications Launch

Michael Nolan, Chief Executive Officer at TII

TII Publications

- TII Publications is being launched today!
- TII Publications is now available for *information only*, during a transition period;
- On <u>1 June 2016</u> TII Publications will become <u>effective</u>;
- From that date, TII Publications will be the source for all current and new Standards and Specification documentation relating to the design, construction and maintenance of National Roads schemes in Ireland;
- The system also contains other TII technical documentation, relating to TII services.



Topics and Speakers

- Introduction (Michael Nolan, TII)
- Background to the New System (Helen Hughes, TII)
- Implementation of TII Publications (Gavin O'Donnell, Arup)
- Live Demonstration (Gavin O'Donnell, Arup)
- Implications for Users (Gavin O'Donnell, Arup)
- Closing Remarks (Helen Hughes, TII)
- Questions and Answers (Panel of Presenters)



Transport Infrastructure Ireland (TII) was established through a merger of the National Roads Authority and the Railway Procurement Agency under the Roads Act 2015, with effect from 01/08/15.

TII's primary function is to provide an integrated approach to the future development and operation of the national roads network and light rail infrastructure throughout Ireland.







TII Mission and Vision

MISSION

To provide high quality transport infrastructure and services, delivering a better quality of life and supporting economic growth.

VISION

Our Vision is:

- To be leaders in the delivery and operation of transport infrastructure.
- To ensure that Ireland's national road and light rail infrastructure is safe, sustainable and resilient, delivering better accessibility and mobility for people and goods.
- To be recognised as an organisation that values its people, customers and partners.





TII Mission and Vision

TII will continue to focus on the maintenance, operation and delivery of infrastructure improvements throughout the national road network and the Luas light rail network in partnership with the Government, Local Authorities, National Transport Authority and the private investment community.

TII has responsibility for the maintenance and operations of the countries national road network, inclusive of motorway and national secondary roads, totalling over five thousand kilometres. These two main areas of responsibility make TII one of countries leading infrastructure development and management organisations.











TII Standards

Aim

"... to promote quality and consistency of approach in relation to the design and construction of road and bridge projects;

... to achieve an appropriate balance of economy, safety, sustainability and durability on road schemes"

Drivers for change

- Developments in International standards
- Feedback from National Roads Projects
- Conclusions of research projects
- Representation from Industry
- Developments with NRA policies
- Compliance with the EU Directives (eg CPR 2011)



Background to the TII Publications System

Helen Hughes, Director of Professional Services at TII

Legislative Remit to Specify Standards

- TII has a range of specific functions under The Roads Act 1993 to 2015
- Particularly in respect of standards, clause 19 includes the following;

"(1) The Authority may, in relation to national roads or proposed national roads, do all or any of the following:

(e) subject to section 15B(3), specify standards in relation to design, construction or maintenance works to be complied with by a person, road authority or public authority carrying out such works;"



A brief history of Road Standards in Ireland

Pre-2000 | An Foras Forbartha and later NRA

Design Guidelines (Geometric RT series, other UK references)

2000 | National Roads Authority

Launch of NRA DMRB/NRA MCDRW based on UK System

2000 to 2015 | National Roads Authority

Development and Expansion with increasing international influence

2016 | Transport Infrastructure Ireland

• Launch of TII Publications (a new structure and system)



Background to TII Publications

TII wanted a new structure to;

- promote the new TII brand
- have fully stand-alone TII documentation
- better integrate Standards with workflows
- consideration of wider NRA and RPA technical documentation
- maintain a coherent and logical structure

Other Country's systems reviewed initially;

- Sweden, The Netherlands, Denmark, Australia, Canada, USA and the UK
- Wide variability in approach



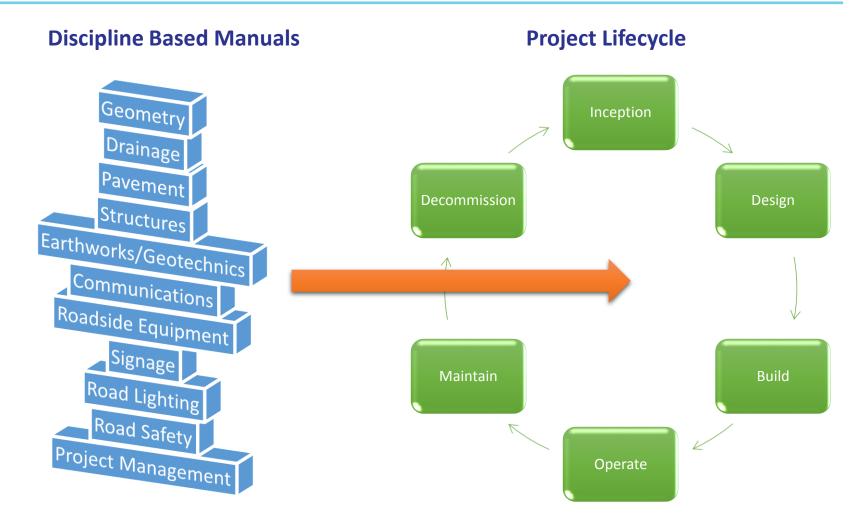
Background to TII Publications

Objectives of the new system

- Simple, over-arching structure;
- Modular-based;
- Flexible sub-structure;
- Increased web-based functionality; and
- Electronic document management system.

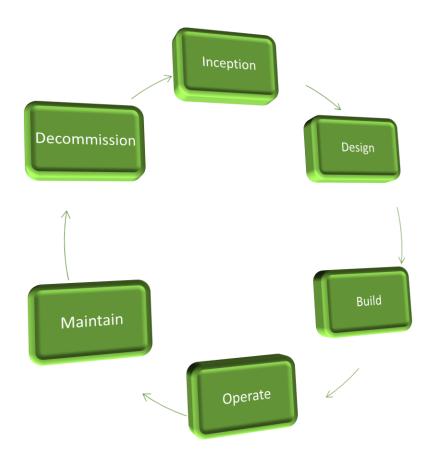


Background to TII Publications



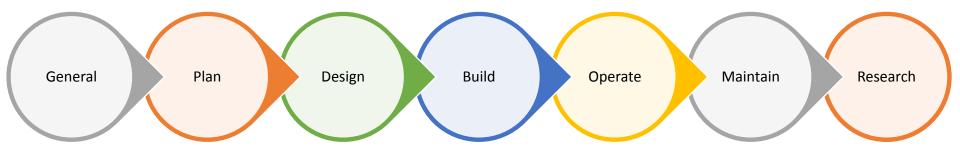


Life-cycle Activities





Life-cycle Activities





7 'Pillar' Activities





Discipline 'Streams'

Design (DN)

Archaeology (ARC)	Lighting (LHT)	Track Alignment and Clearances (TAC)
Buildings (BLD)	Other Documents (OTH)	Traffic (TRA)
Drainage (DNG)	Pavement (PAV)	Trackworks (TWK)
Design Management (DNM)	Road Equipment (REQ)	Tunnels (TUN)
Environment (ENV)	Rail Systems (RSY)	Urban Architecture and Landscaping (UAL)
Earthworks (ERW)	Rolling Stock (RSS)	Urban / Rural Interface (URI)
Geometry (GEO)	Structures (STR)	Utilities (UTL)
Intelligent Transport Systems (ITS)	Safety (STY)	



Document Mapping

Sample NRA DMRB Docs

BA 16 The Assessment of Highway Bridges and Structures

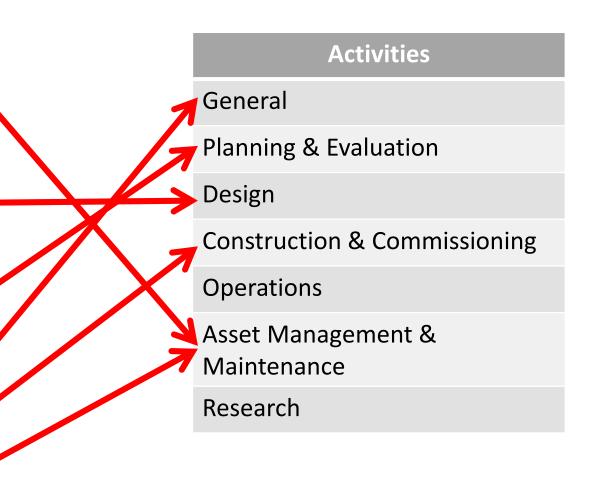
BA 83 Cathodic Protection for Use in Reinforced Concrete Highway Structures

NRA HD 18 Road Safety Impact Assessment

NRA HD 15 Network Safety Ranking

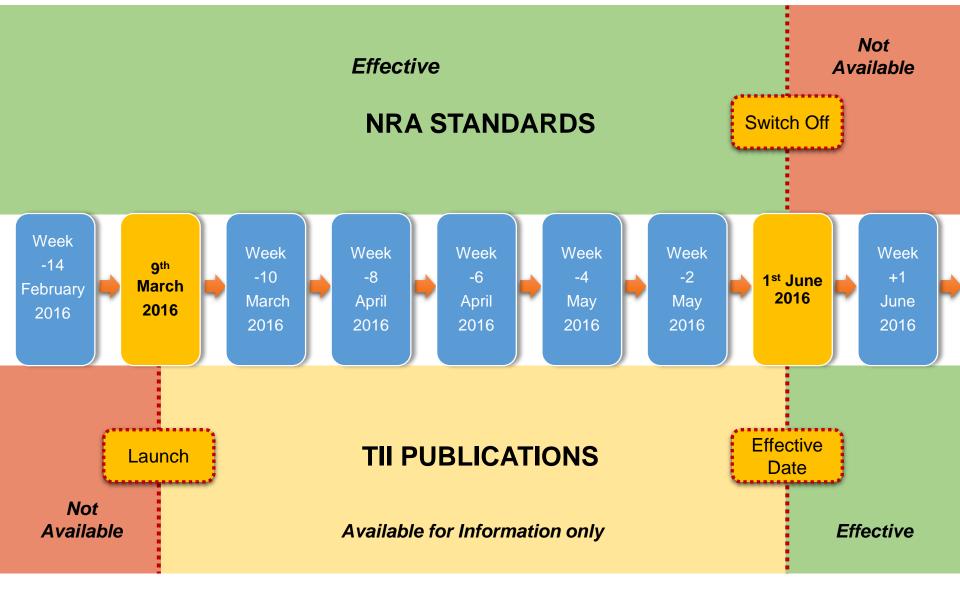
NRA HD 16 Temporary Safety Measures Inspection

NRA HD 28 Management of Skid Resistance



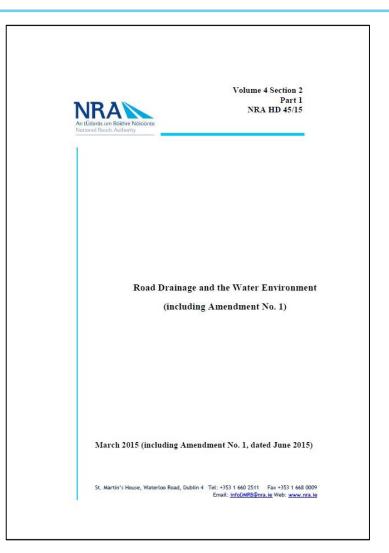


Transition to TII Publications



Implementation of TII Publications

Gavin O'Donnell, Associate Director at Arup





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	Contents			
Clause	Title	Pag		
1501	T			
	Introduction			
1502	General Requirements			
1503	Materials Equipment and Workmanship			
1504	Site Records			
	Cabinets and Ancillary Items			
1506	Cables			
1507	Cable Laying			
1508	Installation of Cabinets and Signal Posts			
1509	Gantries for Motorway Signals			
1510	Installation of Emergency Telephones			
1511	Cable Joints			
1512	Installation of Ancillary Items			
1513	Termination of Armoured Multi-pair Communication Cables			
1514	Cable Connectors			
1515	Termination of Fibre Optic Communication Cables			
1516	Termination and Jointing of Power Supply Cables for Communicati			
1518	Earthing and Bonding			
	Cable Testing			
1519 1520	Labelling and Numbering			
1520	Loading			
1521	Removal and Resiting of Existing Equipment			
1525	Loop Detectors			
1524	Trial Pits Maintaining the Existing Motorway Communications Network			
1526	The Inspection and Testing of Electrical Installations			
1520	Cable Installation at Buildings			
1528	Modifications to Existing Cabinets			
1528	Temporary Emergency Telephones			
1529	Cable Ducts			
1531	Installation of Ducts			
1532	Chambers for Motorway Communications Cables			
1533	Proving and Testing of Ducts			
1535	Closed Circuit Television			
1535	Cable Travs			
1536	Poles for Lightweight ITS Equipment			

June 2015



NRA An tUdereis um Böldere Neinidens Nartschel Rasch Authority

NRA Standards Section – Technical Bulletin NRA TB 13 Revised Road Drainage Standards March 2015

NRA TB 13 (March 2015)

REVISED ROAD DRAINAGE STANDARDS

In March, 2015, the NRA significantly revised its drainage standards for major road projects. This revision was precipitated by research carried out under the NRA Research Fellowshit Programme and mentored by the NRA Environment Unit. The research looked at the impacts of national road drainage systems on both surface and ground water and concluded that the NRA drainage standards needed to be expanded to promote the use of sustainable drainage systems and to maximise environmental benefits. A report entitled *Drainage Design for National Road Schemes – Sustainable Drainage Options* documents this research and provides useful background reading to the NRA drainage standards. This document is available at: <u>http://nrastandards.maielatest/other-na-documents</u>.

As a result of this research and a follow-on comprehensive review of its road drainage standards, the NRA has created a new standard NRA HD 33/15 entitled *Drainage Systems for National Roads* along with a further thirteen new documents that have been incorporated into the NRA DMRB. A significant amendment has also been made to the NRA MCDRW Series 500 including the creation of a large number of new and revised RCDs.

In order to further assist interested persons, a more detailed (<u>non-exhaustive</u> and <u>non-definitive</u>) outline of notable aspects of changes to the NRA DMRB and the NRA MCDRW is contained in the annexes to this document.

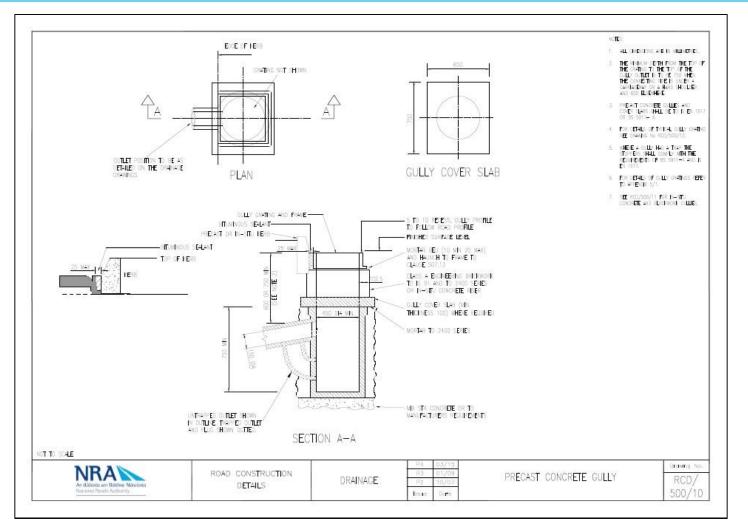
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Pat Maher Head of Network Management National Roads Authority

Teach Naomh Màirtin / Bóthair Waterloo / Baile Átha Cliath 4 St Martin's House / Waterloo Road / Dublin 4 Tel: +353 1 660 2511 / Fax: +353 1 668 0009 Email: infoi

9 Email: <u>infoDMRB@mra.ie</u> Web: <u>mrastandards.nra.ie</u>











You Are Here : > Home

NRA Standards

About Us

Standards Documents

- NRA DMRB Documents
- NRA MCDRW Documents
- Interim Advice Notes
- Recent Changes
- Subscribe for Alerts
- Apply for Departure
- Technical Bulletins
- Related Material
- Forward Look



Welcome to the National Roads Authority Standards website.

Follow the links on the left hand side to access the various parts of the website.

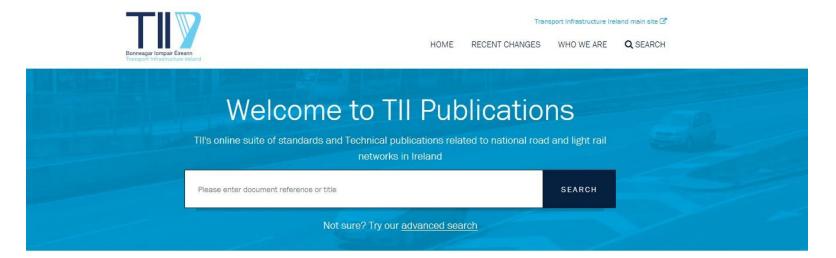
The NRA Design and Contract Document Manuals contain information relating to the design, construction and maintenance of national roads schemes in Ireland and can also be accessed below:

The NRA Design Manual for Roads and Bridges (NRA DMRB)

The NRA Manual of Contract Documents for Roadworks (NRA MCDRW)

NRA Interim Advice Notes





Outline of TII Publications

TII maintains this online suite of technical publications, referred to as TII Publictions. The Contents of TII publications is clearly split into 'Standards' and 'Technical' documentation.

All documentation for implementation on TII schemes is collectively referred to as TII Publications (Standards), and all other documentation within the system is collectively reffered to as TII Publications (Technical). All documentation is available for free download. More information on the TII Publications system.

> View Recent Changes

Lists of new and updated TII Publications documentation published recently

Forward Look

The current list of anticipated publications and an estimated publication date

> Departure to Standards 🕑

Dedicated website for application or management of Departures to TII Publications

> TII Document Library 🗹

Library of non-technical TII documentation on the main TII website



Outline of TII Publications

- TII Publications is simply a **restructuring** of existing documentation
- All existing documentation contained on the NRA Standards website has been processed into the new system
- The technical contents of the NRA Standards and other documentation has not changed



Outline of TII Publications

TII Publications (Standards)

- NRA Standards (NRA BDs, GDs, HDs, TDs, etc..)
- NRA Advice Notes (NRA BAs, HAs, TAs, etc...
- NRA Specification for Roadworks
- Notes for Guidance to the NRA Specification for Roadworks
- NRA Method of Measurement for Roadworks
- Notes for Guidance to the NRA Method of Measurement for Roadworks
- NRA Road Construction Details
- Future Developments?



Outline of TII Publications

TII Publications (Technical)

- NRA Interim Advice Notes
- NRA Technical Bulletins
- Research Papers
- Technical Reports
- Future Developments?



New Covers

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Departures from Standards and Specification (including Erratum No. 1, dated June 2013)

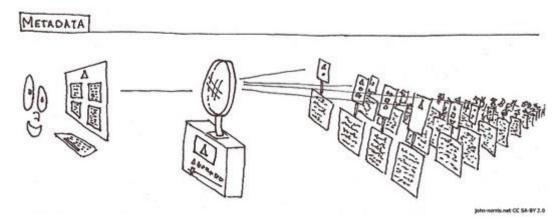
GE-GEN-01005 March 2013



Standards



- New Covers
- Expanded Metadata





- New Covers
- Expanded Metadata
- New Database

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Recycle Bin	1	AM-PAV -06050- 01	Asset Management & Maintenance (AM)	Pavement (PAV)	06050	Standards	Pavement Assessment, Repair and Renewal Principles	Published	AM	PAV	S	р	01/03/2015	NRA HD 31
	1	AM-STR- 06001- 01	Asset Management & Maintenance (AM)	Structures (STR)	06001	Standards	Implementation of BS 5400 Part 10: 1980 - Code of Practice for Fatigue	Withdrawn	АМ	STR	S	w	01/08/2010	NRA BA 9
	1	AM-STR- 06001- 02	Asset Management & Maintenance (AM)	Structures (STR)	06001	Standards	The Use of BS 5400: Part 10: 1980 - Code of Practice for Fatigue	Published	АМ	STR	S	р	01/06/2014	NRA BA 9
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	1	AM-STR- 06002- 02	Asset Management &	Structures (STR)	06002	Standards	The Assessment of Road Bridges and Structures	Published	AM	STR	S	P	01/06/2014	NRA BA 15



- New Covers
- Expanded Metadata
- New Database
- New Website

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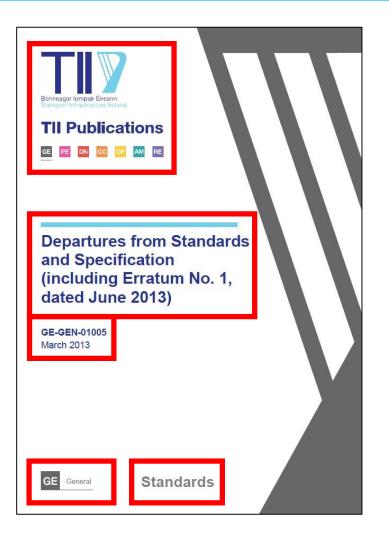
Forward Look The current list of anticipated publications and an estimated publication date

Departure to Standards C^{*} Dedicated website for application or management of Departures to Til Publications

> TII Document Library ⊡ⁿ Library of non-technical TII documentation on the main TII website.



Document Covers



TRANSPORT INFRASTRUCTURE IRELAND (TII) PUBLICATIONS

About TII

Transport Infrastructure Ireland (TII) is responsible for managing and improving the country's national road and light rail networks.

About TII Publications

TII maintains an online suite of technical publications, which is managed through the TII Publications website. The contents of TII Publications is clearly split into 'Standards' and 'Technical' documentation. All documentation for implementation on TII schemes is collectively referred to as TII Publications (Standards), and all other documentation within the system is collectively referred to as TII Publications (Technical). This system replaces the NRA Design Manual for Roads and Bridges (NRA DMRB) and the NRA Manual of Contract Documents for Road Works (NRA MCDRW).

Document Attributes

Each document within TII Publications has a range of attributes associated with it, which allows for efficient access and retrieval of the document from the website. These attributes are also contained on the inside cover of each current document, for reference. For migration of documents from the NRA and RPA to the new system, each current document was assigned with new outer front and rear covers. Apart from the covers, and inside cover pages, the documents contain the same information as previously within the NRA or RPA systems, including historical references such as those contained within NRA DMRB and NRA MCDRW.

TII Publication	Title Vegetated Dr	Vegetated Drainage System for Road Runoff				
TII Publication Number	DN-DNG-030	DN-DNG-03063				
Activity Design (DN)		Document Set	Standards			
			March 2015			
Stream	Drainage (DNG)) Publication Date	March 2015			

NKA DMKB and MCDKW References

For all documents that existed within the NRA DMRB or the NRA MCDRW prior to the launch of TII Publications, the NRA document reference used previously is listed above under 'historical reference'. The TII Publication Number also shown above now supersedes this historical reference. All historical references within this document are deemed to be replaced by the TII Publication Number. For the equivalent TII Publication Number for all other historical references contained within this document, please refer to the TII Publication Souther to the south of the the south of the south



Document Covers



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TII Publications

Departures and Specific (including E dated June

GE-GEN-01005

March 2013

DN

PE-PMG-02001 June 2012

Road Safety Vegetated Di Assessment for Road Rur

> DN-DNG-03063 March 2015

> > DN Design

DI Specification Works Serie and Service Amendment May 2015)

> CC-SPW-00500 March 2015

The Design (Bridges

AM-STR-06008 June 2014 Drainage Design For National Road Schemes -Sustainable Drainage Options

RE-CPI-07001 May 2014



PE Planning & Evaluation

CC Construction & Commissioning



Research

RE

Technical



Metadata Referencing

Metadata used;

- Document Title
- Activity
- Stream
- Reference number

TII Publication Number

DN-ITS-03020

(DN for Design) – (ITS for Intelligent Transport Systems) – (Reference No.)



Further Meta-Data;

- Historical Reference (i.e. NRA TD 9, Series 500, etc..)
- Document Set ('Standards' or 'Technical')
- Document Status (Published or Withdrawn)
- Publication Dates
- Withdrawal Dates

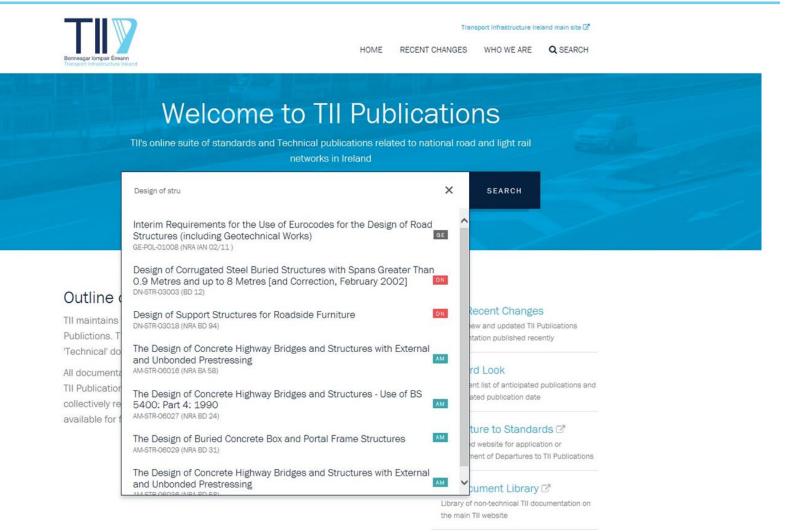


New Website and Database

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Verified Data Standards Public Work in Progress Site Pages		AM-PAV	Asset Management & Maintenance (AM)	Pavement	06045	Standards	Management of Skid Resistance		AM	PAV	S	P	01/11/2011	NRA HD 28
Lists Calendar	1	AM-PAV -06047- 01	Asset Management & Maintenance (AM)	Pavement (PAV)	06047	Technical	Interim Guidelines for Pavement and Maintenance Works	Published	АМ	PAV	т	P	01/01/2007	
VerifiedData Tasks Discussions Team Discussion	2	AM-PAV -06049- 01	Asset Management & Maintenance (AM)	Pavement (PAV)	06049	Standards	Pavement Asset Repair and Renewal - Scheme Approval Procedure	Published	AM	PAV	S	P	01/03/2015	NRA HD 30
Recycle Bin	2	AM-PAV -06050- 01	Asset Management & Maintenance (AM)	Pavement (PAV)	06050	Standards	Pavement Assessment, Repair and Renewal Principles	Published	AM	PAV	S	Ρ	01/03/2015	NRA HD 3.
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	1	AM-STR- 06001- 02		Structures (STR)	06001	Standards	The Use of BS 5400: Part 10: 1980 - Code of Practice for Fatigue	Published	АМ	STR	S	P	01/06/2014	NRA BA 9
	2	AM-STR- 06002- 01	Asset Management & Maintenance (AM)	Structures (STR)	06002	Standards	The Assessment of Highway Bridges and Structures	Withdrawn	АМ	STR	S	W	01/08/2010	NRA BA 16
	1	AM-STR- 06002- 02	Asset Management &	Structures (STR)	06002	Standards	The Assessment of Road Bridges and Structures	Published	AM	STR	S	р	01/06/2014	NRA BA 16



New Website and Database





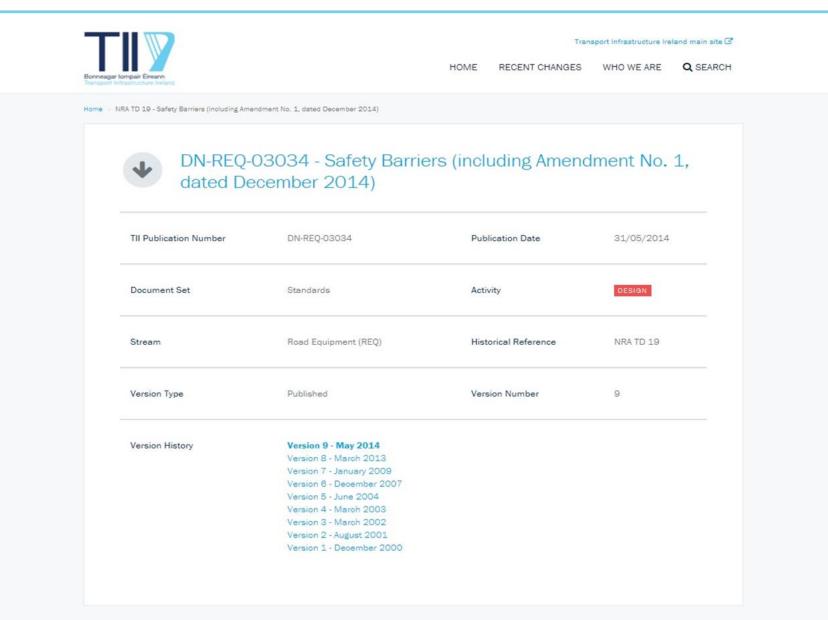
Website – Advanced Searching

Advanced Search				
nowing all document stre	ams		Refine by activity	
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Collaboration Projecta - Europa (CPE)	Collaboration Projects - Ireland (CPI)	Construction Manageme	CC Construction & Commissioning	
Drainage (DNG)	General (GEN)	Geometry (GEO)	GE General PE Planning & Evaluation RE Research	
Guidance on Specification for Works (GSW)	Intelligent Transport Systems (ITS)	Introduction (INT)		
Pavement (PAV)	Policy (POL)	Project Management (PM	 Requirements for Measuring and Pricing (RMP) 	
Road Equipment (REQ)	Safety (STY)	Specification for Worka (S	PW) Standard Construction Details (SCD)	
Strategic Management (SMG)	Structures (STR)	Technical Bulletins (TBU)		

Website – Search Lists

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AM-PAV-06050 - Pavement Assessment, Repair and Renewal Principles	NR4 HD 31	01 Mar 2018	Aubts	shed	
AM-STY-06043 - Road Safety Inspection Guidelines	NRA HA 17	01 Dec 2014	Aubla	shed	
AM-STY-06044 - Road Safety Inspection	NRA HD 17	01 Dec 2014	Rubis	ched	
AM-STY-06046 - NRA HD 17 Road Safety Inspections - Inspection Team Qualifications		80 Jun 2012	Publi	shed	
NSTRUCTION & COMMISSIONING					
CC-GSW-00001 - Notes for Guidance on the Specification for Road Works Series NG 000 - Introduction	Sarias NG 000	01 Mar 2015	Aubli	shad	
CC-GSW-00100 - Notes for Guidance on the	Series NG 100	01 Mar 2016	Rubis	shed	

Website – Document Page



What's new?

- Rebranding to TII from NRA
- Over-arching structure of Activities and Streams
- Database of documents based on expanded metadata
- TII Publications website
- Enhanced functionality for searching and listing documents
- TII Publication Number replaces NRA Standards References
- Increased flexibility to add documentation





What stays the same?

- Initially the technical contents of all documents
- The implementation and policies around standards
- The underlying processes around the development of standards
- Objectives of TII Publications (Standards) including;

"...promote quality and consistency of approach in relation to the design and construction of road and bridge projects;

...to achieve an appropriate balance of economy, safety, sustainability and durability on road schemes"



Future developments - Standards

Possible Standards document developments may include;

- Adoption of Interim Advice Notes
- Development of new Standards
- Restructuring of existing Standards
- Adoption of documentation currently outside of Standards to form part of TII Publications (Standards)



Future developments - Technical

Possible Technical document developments may include adding;

- TII Technical Policy Documents;
- TII Strategic Reports on Technical Issues;
- TII Technical Information Notes (such as Technical Bulletins);
- TII Technical Approval Systems;
- Other TII Technical Reports (e.g. Pilots and Trials)



Website – Live Demonstration

http://www.tiipublications.ie/

Implications for Users

Gavin O'Donnell, Associate Director at Arup

Definition of TII Publications (Standards)

From "Implementation and Use of TII Publications (Standards) Documentation (GE-POL-01030)"

TII Publications (Standards) is a collection of documentation (documents and drawings) that define the standard to be complied with in respect of the design, construction or maintenance of National Roads schemes in Ireland. TII Publications (Standards) documentation can be accessed through the online website (<u>http://www.tiipublications.ie/</u>), and includes documentation containing mandatory requirements, guidance, advice and standard drawings.



Implementation Overview

- The effective date for the new TII Publications system is 1 June 2016
- From this date, the existing NRA Standards website will no longer be available
- Also from this date, all references within the existing NRA Standards system will be considered historical, i.e.
 - NRA DMRB and NRA MCDRW as manuals
 - NRA TD 19, NRA BD 2, NRA HD 20, etc. as Standards
 - Series 500, NG Series 500, MM Series 500, etc. as relevant to Contracts



Implementation Overview

- From the effective date, the new TII Publication Numbers will be in use, together with the Historical References
- TII Publications (Standards) will be the new system title
- New 'Collective' references will also be in place, particularly for the Construction and Commission (CC) activity, e.g.
 - Specification for Works (SPW)
 - Guidance on Specification for Works (GSW)
 - Requirements for Measuring and Pricing (RMP)
 - Guidance on Measuring and Pricing (GMP)
 - Standard Construction Details (SCD)



7 'Pillar' Activities



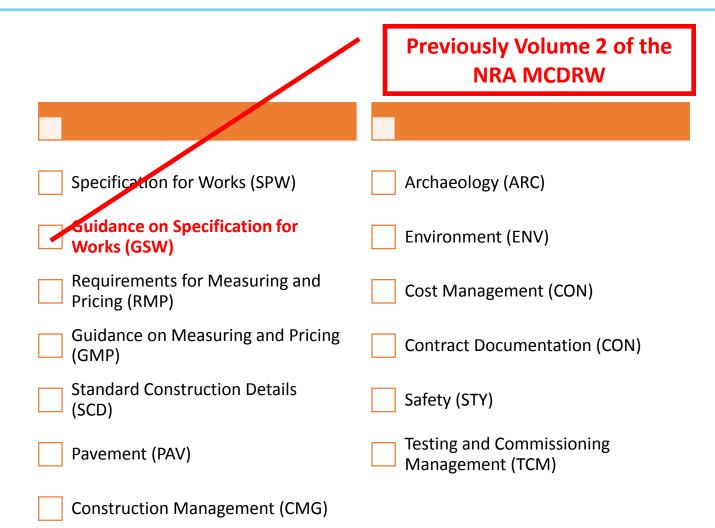


Specification for Works (SPW)	Archaeology (ARC)
Guidance on Specification for Works (GSW)	Environment (ENV)
Requirements for Measuring and Pricing (RMP)	Cost Management (CON)
Guidance on Measuring and Pricing (GMP)	Contract Documentation (CON)
Standard Construction Details	Safety (STY)
Pavement (PAV)	Testing and Commissioning Management (TCM)
Construction Management (CMG)	

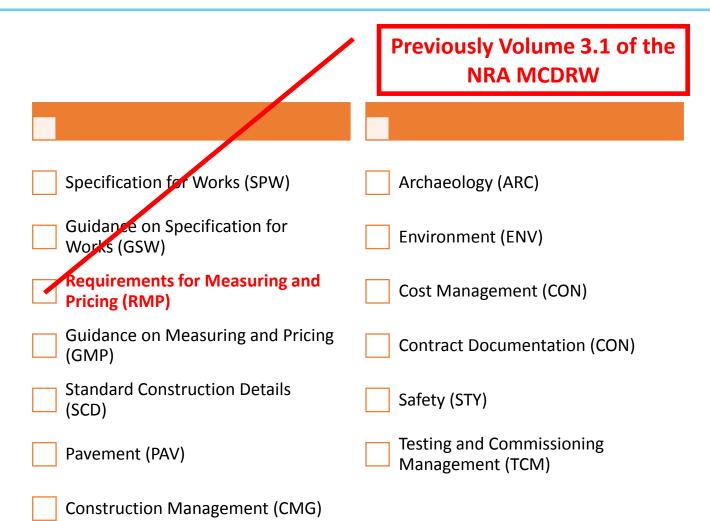


	Previously Volume 1 of the NRA MCDRW
Specification for Works (SPW)	Archaeology (ARC)
Guidance on Specification for Works (GSW)	Environment (ENV)
Requirements for Measuring and Pricing (RMP)	Cost Management (CON)
Guidance on Measuring and Pricing (GMP)	Contract Documentation (CON)
Standard Construction Details (SCD)	Safety (STY)
Pavement (PAV)	Testing and Commissioning Management (TCM)
Construction Management (CMG)	

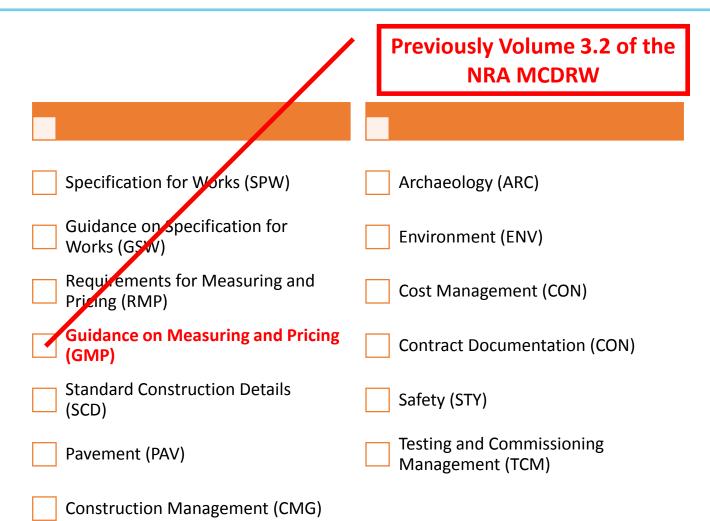




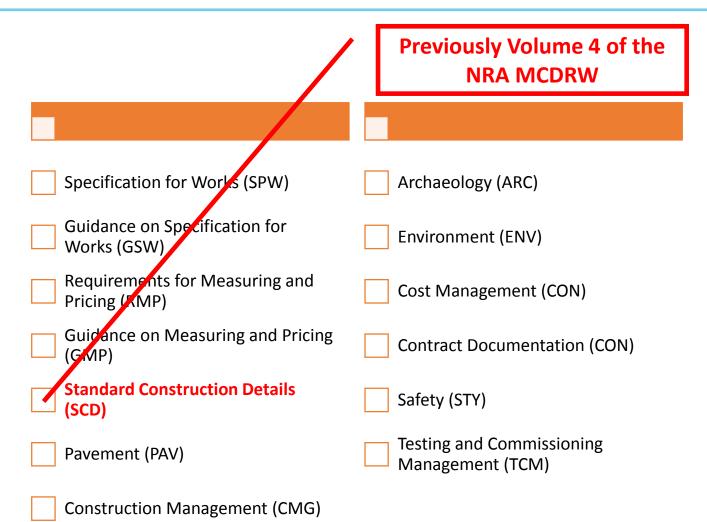














TII Publication Numbers

Example

CC-SPW-00500

(CC for Construction and Commissioning) (SPW for Specification for Works) (Numeric Reference No.)

Historical References	TII Publication Numbers	
Series 500	CC-SPW-00500	
NG Series 500	CC-GSW-00500	
MM Series 500	CC-RMP-00500	
MMNG Series 500	CC-GMP-00500	
RCD/500/20	CC-SCD-00520	



Implementation for Contracts

 Amendments have been made to the key implementation documentation for Contracts (previously NRA MCDRW), including;

NRA MCDRW Ref	NRA MCDRW Title	TII Publication Number
Series 000	Specification	CC-SPW-00010
NG Series 000	Notes for Guidance to Specification	CC-GSW-00010
Vol 3, Part 1, Chapters I, II and III	Method of Measurement	CC-RMP-00010
Vol 3, Part 2, Chapters I, II and III	Notes for Guidance to Method of Measurement	CC-GMP-00010



Implementation for Contracts

• Typical amendment to the Preamble to the Specification appears as follows;

PREAMBLE TO THE SPECIFICATION

- 1 The Specification referred to in the Contract shall be the <u>Specification for Works (SPW) in TII</u> <u>Publications (Standards) published by TII as a collective group of documents under the</u> <u>Construction and Commissioning activity within the online TII Publications system</u> (<u>http://www.tiipublications.ie/)</u>, current on the date 10 working days prior to the tender returns date or, if applicable, the extended tender returns date and incorporating all amendments current on that date and as extended by the following:
 - i) Appendix 0/1: Contract-specific Additional, Substitute and Cancelled Clauses, Tables and Figures;
 - ii) Appendix 0/2: Contract-specific minor alterations to existing Clauses, Tables and Figures;
 - iii) The Numbered Appendices listed in Appendix 0/3;
 - iv) Appendix 0/4 containing a list of the drawings referred to in the Specification.



Implications for Users (Today)

- The TII Publications system is now available for users to review, interact with and become familiar with
- All users should subscribe for updates to the new system (automatic for existing subscribers)
- There is no immediate effect on existing Contracts, as the NRA Standards system remains effective
- Users should use the transition period to become aware of the changes to be implemented
- The Effective Date of the new system is 1 June 2016





Implications for Users

• All relevant Contract documentation shall implement the new system from 1 June 2016



- Tenders where the submission date is within
 2 weeks of 1 June 2016 must include reference to the new system, including Preambles, etc..
- However, reference to specific TII Publication Numbers for individual documentation does not need to be updated initially (although it can be)
- A check for conflicts with references within all updated Contract documentation should be undertaken



Implications for Users

- From the start of 2017, all Contracts shall be updated to reflect the correct references to the TII Publications system, including all TII Publication Numbers;
- TII is developing a base set of D&B/PPP Schedules and Employer Design Contract Specification Appendices, which shall also be updated by TII;
- TII will continue to develop and update technical requirements in documentation
- TII will review policy in respect of the way Standards and Specifications are assembled and grouped

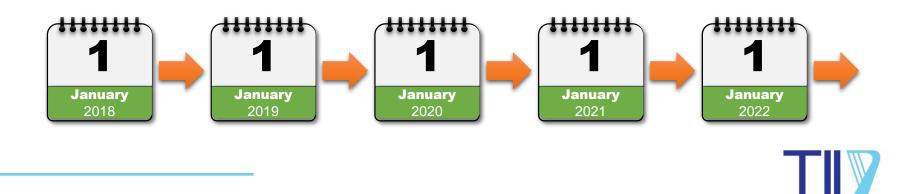


January

2017

Implications for Users (Longer Term)

- TII will implement a programme of updates to TII Publications documentation, which aligns with the lifecycle approach and the way technical requirements are used with respect to TII services and projects
- New and updated documentation will be notified to subscribed users of the TII Publications system in the normal way.



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Closing Remarks

Helen Hughes, Director of Professional Services at TII

Closing remarks

- TII Publications is being launched today!
- TII Publications is now available for *information only*, during a transition period;
- On <u>1 June 2016</u> TII Publications will become <u>effective</u>;
- From that date, TII Publications will be the source for all current and new Standards and Specification documentation relating to the design, construction and maintenance of National Roads schemes in Ireland;
- The system also contains other TII technical documentation, relating to TII services and projects.

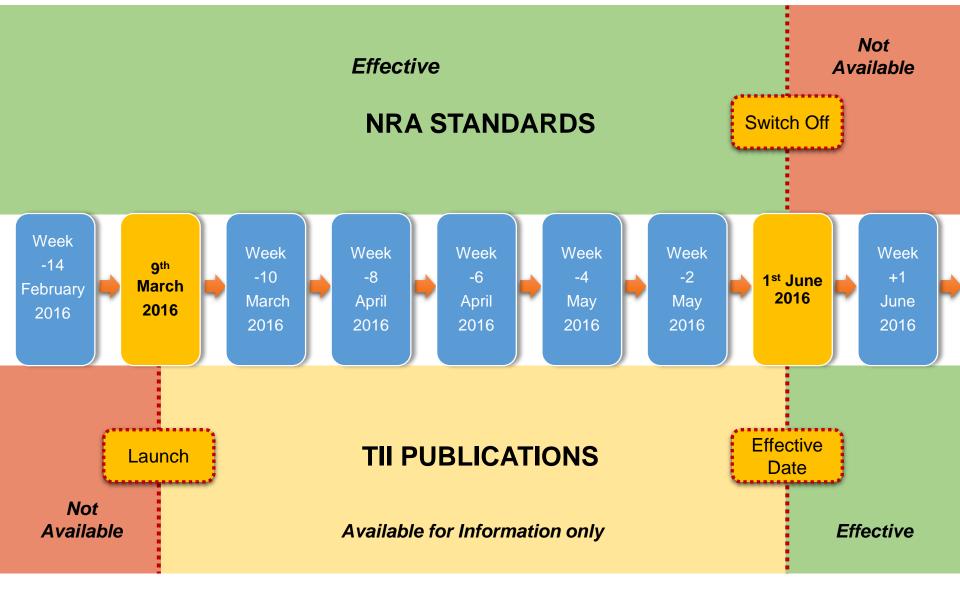


Closing remarks

- New TII Publication Numbers will replace the familiar NRA Standards references (which still be visible as Historical References)
- Initially, the technical contents of the Standards has not changed
- There are implications for Contracts, where users will need to be aware of the implementation requirements presented.



Transition to TII Publications



Questions & Answers

Panel of Presenters