



# Signals Design Documentation

## Applicability

ARTC Network Wide		Western Jurisdiction		New South Wales	✓	Victoria	
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Audience	Main Points	Change History
Design Engineers Commissioning Engineers Test Engineers Project Managers	Signal Job Numbers Request for Drawings As-Designed Documentation As-Built Documentation	1.1 – Inclusion of forms ESI0702F-06 and ESI0702F-07. Checklist forms updated to include certification by document submitter.

### 1. Introduction

ARTC is undertaking new signalling works for the North-South Strategy, Train Control Consolidation and many other works. This Instruction details a number of steps for the control and distribution of signal design documentation. There is a further instruction for the control of signalling data. This Instruction is in addition to the existing Standards. For NSW the signal drawings shall be in accordance with the requirements detailed in SCP06 Signal Documentation & Drawings.

### 2. Signal Job Numbers

In order to track and control the flow of signal design documentation, a signal job number shall be allocated for each job. This signal job number is to be allocated by the ARTC signal engineer responsible for the project or the signals assets. A spread sheet is set up for each signal region for this purpose. Signal drawings will not be issued without a registered signal job number (see Request for Signal Job Number form [ESI0702F-07](#))

- Signal circuit book update work requires a signal job number.
- Large projects are to have a separate signal job number for each interlocking or circuit book that is affected.
- Signal job numbers are to be registered when the works are authorised to proceed or when a concept design (signal plan) is being produced.

### 3. Request for Drawings

The "Request for Drawings" form [ESI0702F-01](#) is to be used to request drawings (see attached example). The electronic copy (word format) of the Request form is to be submitted to the Signal Manager for the respective region. The Signal Manager will endorse release of the drawings for the nominated purpose and forward the request to the nominated Signal Drawings custodian for the jurisdiction. These are:

- NSW jurisdiction                      Signalling Standards Engineer
- Western jurisdiction                Adelaide Planroom Manager
- Victorian jurisdiction                VicTrack

The Signal Drawing custodian will issue a soft copy of the drawings on CD-ROM. This has a Document Transmittal Form [ESI0702F-02](#) and Reference number with each CD-ROM. This should be used in any follow up inquiries regarding the drawings. Where there are multiple drawings for the one subject item e.g circuit book CAD files, these will be referenced as a group and not individually on the Document Transmittal Form.

Drawings may be held as either scanned drawing files or CAD files. The files available will vary from location to location.

<b>Issued by</b>	<b>Date</b>
John Furness, Manager Standards	24 January 2008

In some cases new designs may not yet be available through the Drawing Management System or the office copy may not yet have been updated for the previous design changes. In all cases the Designer for new works or projects shall check the status of the delivered files with the respective Signal Engineer for the location. The Design Engineer is responsible for ensuring that the designs are based on the correct status of the current infrastructure. In some cases this may involve correlation checking.

To assist in identifying the drawings required, a copy of the NSW list of circuit books by number and by location is available on request to the Signalling Standards Engineer. Engineers requesting drawings should have an understanding of the location and the scope of works, when requesting drawings.

#### 4. Design Documentation

Designs shall be produced in accordance with the ARTC Standards. All new designs or amendments shall be produced in CAD format (AutoCAD or MicroStation as appropriate). Where an existing drawing requiring changes is not in CAD format, it shall be put in CAD format for any amendments. Amending drawings on hard copy printout is only permitted by approval from the Signal Manager, with the drawing being converted to CAD at the time of updating to As-Built.

The project drawings for a location or interlocking shall be configured into a circuit book for the signal project or job. The Circuit Book Control Sheets and Amendment Sheets shall be updated to reflect the new work. The design date for all new or amended drawings shall be the date of the Design Check. Any changes during independent checking, construction, testing or commissioning shall be the date of the design check of these changes. The Circuit Book control sheet shall list all drawings that form the circuit book and not just the new or amended drawings.

The signal design shall be reviewed, checked and approved as per ARTC standards and instructions.

The project / job signal design when independently checked and approved for construction is referred to as the As-Designed drawings.

An electronic copy of the As-Designed drawings is to be recorded on the ARTC Drawing Management System. These are to be submitted to the nominated Signal Drawing Custodians as per #3. This shall be submitted as a CD-ROM of the CAD drawings. A scanned copy of the complete signal project / job shall also be included on the CD-ROM. This shall be submitted at the time that the drawings are issued for construction. The Signal Job number shall be referenced on the label of the CD-ROM (see attached example).

Design Documentation is to be submitted with the As-Designed Checklist [ESI0702F-03](#) (see attached example).

#### 5. Construction / Commissioning Documentation

During construction, testing and commissioning, there may be amendments to the design. These shall be documented as amended design drawings (and reissued) or detailed on Mod Sheets in accordance with the ARTC Standards. At the completion of the Commissioning, the As-Designed drawings together with all the amended drawings and Mod sheets shall be scanned as a complete copy of the design.

This copy of the design shall be referred to as the As-Commissioned drawings.

An electronic copy of the As-Commissioned drawings is to be recorded on the ARTC Drawing Management System. These are to be submitted to the nominated Signal Drawing Custodians as per #3. This shall be submitted as a CD-ROM of the scanned drawings.

During the Testing / Commissioning phase of the works, all testing shall be recorded on the Master Testing Drawings / Circuit Book. This shall indicate the results of all testing and certification by the Test Engineer or appropriate technical staff of the testing undertaken. A scanned copy of these drawings shall be included on the CD-ROM with the As-Commissioned drawings and submitted.

Commissioning Documentation is to be submitted with the As-Commissioned Checklist [ESI0702F-04](#) (see attached example).

#### 6. Update As-Built Documentation

Following the Construction / Commissioning phase of the works, the design drawings shall be updated to As-Built status. Where an original scanned drawing has more than very minor changes required (less than 5% of elements) then, the drawings shall be converted to CAD. All the alterations to the original design and the project design shall be updated onto the CAD or scanned drawing files to accurately reflect the as-commissioned state of the signalling. The following tasks form part of the updating work:

- 1) Review circuit drawings and determine where new circuits should be included so they are in the correct section and in correct (e.g. numerical) order.

- 2) Revise page numbers of the circuit book and update the index, Circuit Book Control sheets and Record of Amendment Sheet accordingly. A generic control sheet master in Microsoft Excel format will be provided by ARTC.
- 3) Assemble one complete copy of all applicable maintenance drawings, amended to the details shown on the certified field copies. This copy is to be checked (copy to be marked up with ticks/highlights as each item is checked off) for detail and completeness against the certified field copies and signed off by the drafting assistant. Each sheet is to be initialled and dated when complete. Errors are to be highlighted and then checked off with initial and date when corrected.
- 4) The independent Signal Certifying Engineer responsible for the updating will then check the drawings for completeness to ARTC standards, standard practices and principles. The Signal Certifying Engineer shall countersign each page of the checking copy.
- 5) The certification of the drawings by Service providers Signal Certifying Engineer is to be considered as the final check on the drawings. One degree of separation is required between the CAD operator / Signal Design Engineer updating the circuits and the independent signal certifying engineer. This is to avoid conflict if the CAD operator works directly for the signal certifying engineer in the same company.
- 6) When maintenance drawings are correct a "Master Amended to COC" notation/stamp is applied to each certified field drawing and signed off by the updating personnel and the Signal Certifying Engineer. This document is referred to as the Master Updating Circuit Book when certified.
- 7) Each CAD file shall contain only one drawing sheet. Two drawings shall not be on the one CAD file layer or on separate layers on the CAD file.

At the completion of the updating the following shall be produced. All CAD files for the Circuit Book shall be collated into one computer folder with the title in the format: "CBxxx Bullamankanka (In) – Black Stump (Ex) Updated 1April07" All other related drawings shall be collated into a second computer folder "xxx Signal Drawings - Bullamankanka (In) – Black Stump (Ex) Updated 1April07" where "xxx" is the allocated CB number. A scanned copy of the complete Circuit Book shall be produced and included in the signal drawings folder. The Master Updating Circuit Book shall be scanned and included in the signal drawings folder.

## **7. Signalling Design Data**

The requirements for management of Signalling Design Data are detailed in ESI-07-03.

Signalling Design Data includes and is not limited to the following:

- Microlok Data and configuration table
- Other Computer Based Interlocking Data and configuration table
- Grade Crossing Predictor data
- VDU signal control systems data and screen designs
- Telemetry remote control systems data and design
- Any configuration or other data in data communications links for CBI or telemetry systems
- Level Crossing Monitor data and configuration
- Fortress Lever locks data register
- Power Supply Design calculations
- Control Tables

## **8. Scanning of Signal Drawings**

The requirements for scanning of signal drawings are detailed in EGI-07-01 Engineering Document Scanning. Signal drawings shall only be supplied in Tiff format and in accordance with these requirements.

## **9. Submission of Signal Drawings**

As detailed above the signal drawings for a project are required to be submitted at the end of each of the following three phases of work:

- As-Designed signal drawings, submitted within 10 working days of issue for construction;
- As-Commissioned signal drawings, submitted within 2 working days of commissioning into service;

- As-Built signal drawings, submitted within 25 working days of commissioning into service.

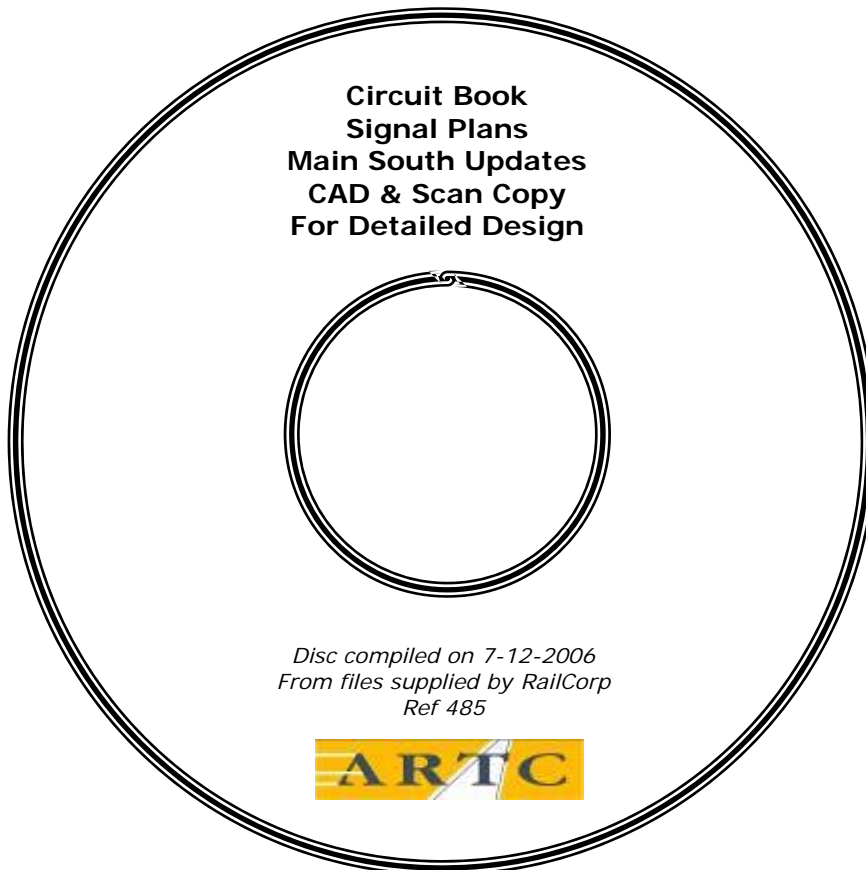
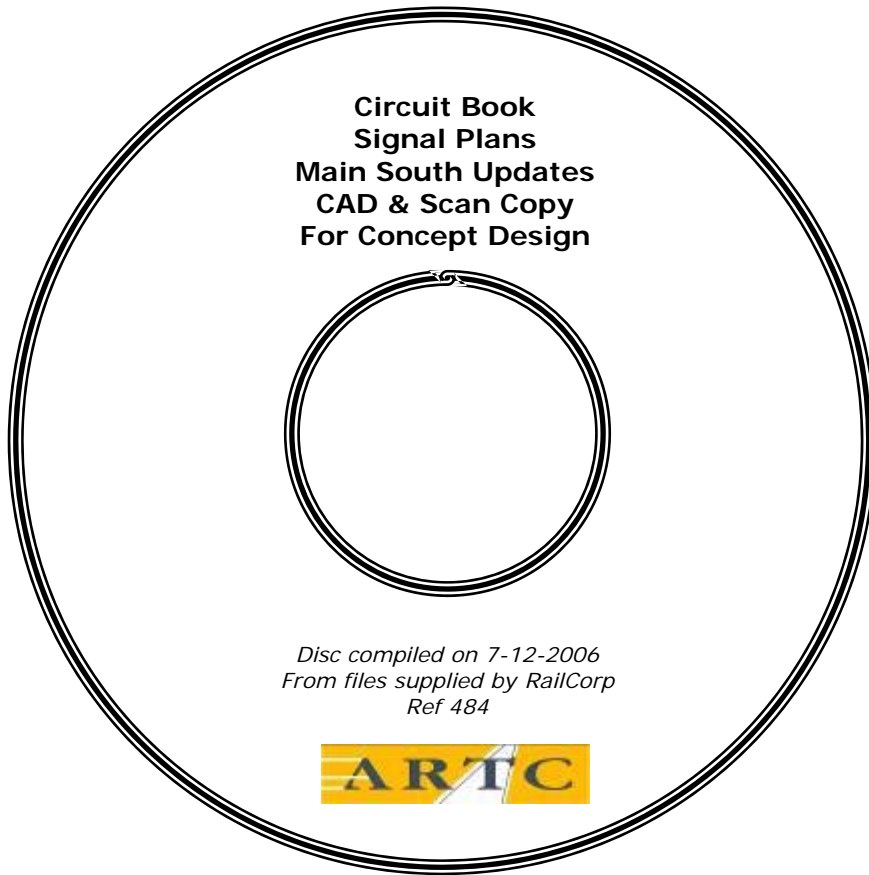
In some cases stagework is undertaken for new signalling works. The updating of As-Built Drawings for stagework at the one interlocking location within the preceding six months of the final commissioning may be incorporated into one Update As-Built Documentation phase.

The As-Built Checklist Template [ESI0702F-05](#) applies to the submission of the As-Built signal drawings (see attached example). The checklist is to be attached to the Transmittal [ESI0702F-02](#) for the drawings at the As-Designed and As-Built phases.

An excel list of the files is to be included with each submission. The following information shall be provided on the excel file for each file/drawing. A program "Filesonfolder" is available to assist in creating this list.

- File name
- File type and File size
- Drawing Name / subject
- Time and date that the file was issued

Template for Drawings CR-ROM Label



ESI0702F-01 Request for Drawings form - example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-01

**REQUEST FOR DRAWINGS**

Discipline:	select	
Corridor:	select	Line Segment:

Project No.:	Project Name:
ARTC Project Manager:	
Requesting Person:	Phone:
Organisation:	Date of Request:
Despatch Drawing to:	

Request Approved by Signal Manager:	select	Date:
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**Request to be email forwarded by Approving Signal Manager**

Reason for Request:	select	Other reason:
Signal Job No.:	<b>Job Number is taken from ARTC Signal Engineer</b>	

*Note: Where the reason is Detailed Design or Update As-Built Drawings, the related drawings or CAD files will be locked from other design changes. Project Evaluation & Concept Design do not lock drawings from other design changes.*

<b>Drawings Requested</b>	Viewer Request Reference:
<b>Only one circuit book location per request</b>	
#1	#3
Other	
<b>Specialised Drawings</b>	Name:
Signalling Circuit Book No:	
Signal Plan (Track Plan) Name:	
Track Insulation Plan:	
Working Sketch:	
Locking Table:	
Locking Diagram:	
Control Table:	
Drivers Diagram:	
Indication / Control Diagram:	
Signalling Computer Data:	N/A Location:

<b>Drawings Copied and Issued</b>		
Name:	Date:	Reference No.:
A Document Transmittal Notice will be issued with each despatch.		
Drawings sent to:		

ESI0702F-02 Document/Item Transmittal and Acknowledgement of Receipt - example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-02



Australian Rail Track Corporation  
Level 15, 60 Carrington Street  
Sydney, NSW, 2000  
Telephone: (02) 8259 0720  
Facsimile: (02) 9279 4539

**DOCUMENT/ITEM TRANSMITTAL and ACKNOWLEDGEMENT OF RECEIPT**

To: xxxxxxxxxxxxxxxxxxxx

Date: 26<sup>th</sup> March 2007

Doc No: 756

The following documents/items are forwarded to you by means of:

**The documents are forwarded for the Purpose of:**

**A – Approval      U – Revision/Update      I – Information only      R – Review      C – Construction**  
**T – Tender      Y – Additional Copies      CO – Concept      D – Design      M – Maintenance**

Item	Title	Type	File Size	Purpose	Copies
1	CB 109 Singleton	CAD	24	D	1
2	CB 417 Camberwell	CAD	24	D	1
3	CB 109 Singleton	S	28	D	1
4	Signalling Plan Singleton	Sc		D	1
5					
6					
7					
8					
9					
10					

Remarks:

**Note:** *ARTC does not warrant that the attached documents are current or will be current as at the time of completion of Design or other Activity. The Receiver of the drawings must make their own investigations as to the as built status of the infrastructure.*

**Sender**

Name: Trevor Moore

Position: Signalling Standards Engineer

Signature:

Date: 26/03/2007

I hereby acknowledge the receipt in good order of all the documentation/data/items listed above. They will only be used for the purpose nominated.

Furthermore, in the case of electronic data items, I declare that the integrity of the data medium has been checked and that all files are properly readable, I accept that the long-term storage and preservation of the data's integrity is the recipient's responsibility, and I therefore confirm that ARTC need no longer, at its discretion, retain a copy of the said data (unless contractual conditions specify otherwise).

**Please ensure a signed copy of the document transmittal is returned to ARTC within one week of receipt. Fax to the above fax number is acceptable.**

Name:

Position:

Signature:

Date:

ESI0702F-03 Submission of Project Drawings "As-Designed Checklist" - example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-03

**SUBMISSION OF PROJECT DRAWINGS**

**AS-DESIGNED CHECKLIST**

Discipline:	select	Signal Job No:
Corridor:	select	Project Name:

*THIS FORM (Hard Copy) MUST BE SUBMITTED WITH THE AS-DESIGNED DRAWINGS*  
*Note: Tick box to indicate that the drawings are included in the Transmittal. For drawings not included, indicate reasons for non-inclusion and date that they will be submitted. CD label must indicate location name and type of files. Each type of file must be in a separate sub-folder on the CD Rom.*

CAD Files	Comment
Circuit Book CAD files:	<input type="checkbox"/>
Signal Plan CAD files:	<input type="checkbox"/>
Track Insulation Plan CAD files:	<input type="checkbox"/>
Control Tables CAD files:	<input type="checkbox"/>
Other CAD files, please list type:	<input type="checkbox"/>
Excel file with list of all CAD files:	<input type="checkbox"/>

Scanned Drawings	Comment
Circuit Book:	<input type="checkbox"/>
Signal Plan:	<input type="checkbox"/>
Signal Sighting Forms:	<input type="checkbox"/>
Level Crossing Layout Plans:	<input type="checkbox"/>
Other Scanned Drawing, please list type:	<input type="checkbox"/>
Excel file with list of all scanned files:	<input type="checkbox"/>

**Other Design Drawings** *where applicable, contract is Design ONLY – CAD & Scanned Files shall be supplied.*

Drivers Diagram:	<input type="checkbox"/>
Locking Table/Diagram, Working Sketch:	<input type="checkbox"/>
Power Supply Calculations:	<input type="checkbox"/>
Mechanical Structures & Equip Housings:	<input type="checkbox"/>
Other Design Drawing, please list:	<input type="checkbox"/>
Excel File with list of all scanned files:	<input type="checkbox"/>

**CERTIFICATION** *(To be signed by the nominated Signal Design Authority or Signal Document Authority)*

I certify that the design drawings and files included with this transmittal are as approved for construction and are in accordance with the ARTC standards.

Signed:	Name:
Position:	Company:

**Signalling Design Data – see separate Checklist (ESI0702F-06)**  
*The Signal Design Data Checklist shall also be supplied with projects/contracts that are Design ONLY*



ESI0702F-04 Submission of Project Drawings "As-Commissioned Checklist" - example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-04

**SUBMISSION OF PROJECT DRAWINGS**

**AS-COMMISSIONED CHECKLIST**

Discipline:	select	Signal Job No:
Corridor:	select	Project Name:
Commissioning Date:		

*THIS FORM (Hard Copy) MUST BE SUBMITTED WITH THE AS-COMMISSIONED DRAWINGS*  
 Note: Tick box to indicate that the drawings are included in the Transmittal. For drawings not included, indicate reasons for non-inclusion and date that they will be submitted. CD label must indicate location name and type of files. Each type of file must be in a separate sub-folder on the CD Rom.

Scanned Files	Comment
Certified Construction Circuit Book with all amendments & mod sheets:	<input type="checkbox"/>
Signal Plan with all amendments & mod sheets:	<input type="checkbox"/>
Track Insulation Plan with all amendments & mod sheets:	<input type="checkbox"/>
Circuit Book Master Testing Drawings:	<input type="checkbox"/>
Signal Plan Master Testing Drawing:	<input type="checkbox"/>
Other Scanned files, please list type:	<input type="checkbox"/>
Excel file with list of all scanned files:	<input type="checkbox"/>

Signals Data Files	Comment
Computer Based Interlocking:	<input type="checkbox"/>
Grade Crossing Predictor:	<input type="checkbox"/>
Level Crossing Monitor:	<input type="checkbox"/>
Telemetry:	<input type="checkbox"/>
VDU Signal Control Systems:	<input type="checkbox"/>
Other Data files, please list type:	<input type="checkbox"/>
Excel File with list of all Data files:	<input type="checkbox"/>

**CERTIFICATION** *(To be signed by the nominated Signal Design Authority or Signal Document Authority)*  
 I certify that the design drawings and files included with this transmittal are As-Commissioned and are a true copy of the commissioned signal works. They are in accordance with the ARTC standards.  
 Signed: \_\_\_\_\_ Name: \_\_\_\_\_  
 Position: \_\_\_\_\_ Company: \_\_\_\_\_

**Signalling Design Data – see separate Checklist (ESI0702F-06)**  
***The Signal Design Data Checklist shall also be supplied.***

ESI0702F-05 Submission of Project Drawings "As-Built Checklist" – example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-05

**SUBMISSION OF PROJECT DRAWINGS**

**AS-BUILT CHECKLIST**

Discipline:	select	Signal Job No:
Corridor:	select	Project Name:

*THIS FORM (Hard Copy) MUST BE SUBMITTED WITH THE AS-BUILT DRAWINGS & FILES*  
*Note: Tick box to indicate that the drawings are included in the Transmittal. For drawings not included, indicate reasons for non-inclusion and date that they will be submitted. CD label must indicate location name and type of files. Each type of file must be in a separate sub-folder on the CD Rom.*

CAD Files	Comment
Circuit Book CAD files:	<input type="checkbox"/>
Signal Plan CAD files:	<input type="checkbox"/>
Track Insulation Plan CAD files:	<input type="checkbox"/>
Drivers Diagram CAD files:	<input type="checkbox"/>
Locking Table/Diagram, Working Sketch CAD files:	<input type="checkbox"/>
Control Panel, Indicator Panel CAD files:	<input type="checkbox"/>
Detailed Site Survey CAD files:	<input type="checkbox"/>
Control Tables CAD files:	<input type="checkbox"/>
Level Crossing Plans CAD files:	<input type="checkbox"/>
Mechanical & Structures CAD files:	<input type="checkbox"/>
Equipment Housing CAD files:	<input type="checkbox"/>
Power Supply Calculations files:	<input type="checkbox"/>
Asset Registers:	<input type="checkbox"/>
Other CAD files, please list type:	<input type="checkbox"/>
Excel file with list of all CAD files:	<input type="checkbox"/>

Scanned Drawings	Comment
Final Updated Circuit Book & Signal Plan:	<input type="checkbox"/> hard copies to be issued to field engineers
Certified Construction Circuit Book with all amendments & mod sheets:	<input type="checkbox"/> original to be included
Master Testing Drawings Circuit Book & Signal Plan:	<input type="checkbox"/> original to be included
Commissioning Work Package:	<input type="checkbox"/> original to be included
Master Updating Circuit Book & Signal Plan:	<input type="checkbox"/> original to be included
Signal Sighting Forms:	<input type="checkbox"/>
Equipment Manuals & Systems Manuals:	<input type="checkbox"/>
Other Scanned Drawing, please list type:	<input type="checkbox"/>
Excel File with list of all Scanned files:	<input type="checkbox"/>

**CERTIFICATION** *(To be signed by the nominated Signal Design Authority or Signal Document Authority)*

I certify that the As-Built drawings and files included with this transmittal are updated and are a true copy of the commissioned signal works. They have been checked and certified. They are in accordance with the ARTC standards.

Signed: \_\_\_\_\_ Name: \_\_\_\_\_  
 Position: \_\_\_\_\_ Company: \_\_\_\_\_

**Signalling Design Data – see separate Checklist (ESI0702F-06)**  
***The Signal Design Data Checklist shall also be supplied.***

ESI0702F-06 Submission of Project Drawings "Signal Design Data Checklist" – example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-06

**SUBMISSION OF PROJECT DOCUMENTS**

**SIGNAL DESIGN DATA CHECKLIST**

Discipline:	select	Signal Job No:
Corridor:	select	Project Name:

*THIS FORM (Hard Copy) MUST BE SUBMITTED WITH THE AS-COMMISSIONED & AS-BUILT DATA FILES and As-Designed Drawings for Design Only projects/contracts.*

*Note: Tick box to indicate that the drawings are included in the Transmittal. For drawings not included, indicate reasons for non-inclusion and date that they will be submitted. CD label must indicate location name and type of files. Each type of file must be in a separate sub-folder on the CD Rom.*

Computer Based Interlocking Files	Comment
CBI Interlocking Name:	<input type="checkbox"/> select
files:	<input type="checkbox"/>
files:	<input type="checkbox"/>
files:	<input type="checkbox"/>
files:	<input type="checkbox"/>
CBI II data form:	<input type="checkbox"/>

Control Systems Files	Comment
Telemetry I/O files:	<input type="checkbox"/>
Telemetry design data files	<input type="checkbox"/>
VDU screen map files:	<input type="checkbox"/>
Phoenix address list:	<input type="checkbox"/>
Vital Communications design records:	<input type="checkbox"/>
Other files, please list type:	<input type="checkbox"/>
Excel file with list of all files:	<input type="checkbox"/>

Other Data Files	Comment
Grade Crossing Predictor files:	<input type="checkbox"/>
Level Crossing Monitor files:	<input type="checkbox"/>
Lever Lock Fortress key coding data register:	<input type="checkbox"/>
EOL lock codes	<input type="checkbox"/>
:	<input type="checkbox"/>
:	<input type="checkbox"/>
:	<input type="checkbox"/>
Other files, please list type:	<input type="checkbox"/>
Excel File with list of all files:	<input type="checkbox"/>

**CERTIFICATION** *(To be signed by the nominated Signal Design Authority or Signal Document Authority)*

I certify that the As-Built data files included with this transmittal are updated and are a true copy of the commissioned signal works. They have been checked and certified. They are in accordance with the ARTC standards.

Signed: \_\_\_\_\_ Name: \_\_\_\_\_

Position: \_\_\_\_\_ Company: \_\_\_\_\_

ESI0702F-07 Request for Signal Job Number – example

Engineering (Signal) Instruction - Form  
ESI-07-02 Signals Design Documentation



Form number: ESI0702F-07

**REQUEST FOR SIGNAL PROJECT JOB NUMBER**

This is required for all changes to the signalling asset configuration.  
**Only one circuit book or interlocking location per SIGNAL JOB NUMBER request please.**

Corridor:	select	Job Number:	<b>issued by ARTC</b>
Region:	select	Line Segment:	

Project No.:	ARTC Project Manager:
Project Title:	

Requesting Person:	Position:
Organisation:	Signature:
Email:	Phone:
Project Role:	Date of Request:

Location
Limits of work
Description of Scope:
Proposed Commissioning Date:    Month    select    Year    select

Example Only

<b>Signal Design Authority:</b>	Signature:
Organisation:	Competency:
<i>The Signal Design Authority is responsible for overseeing all aspects of the signalling and control systems design and ensuring that it complies with all ARTC Standards and Procedures.</i>	

<b>Signal Document Authority:</b>	Name:	Signature:
Organisation:	Competency:	
<i>The Signal Document Authority is responsible for managing all the signalling and control systems design documentation to ARTC Standards and Procedures and ensuring that the As-Built and Testing documentation is submitted to ARTC.</i>		

<b>Delivery Project Manager:</b>	Name:	Signature:
Organisation:	Competency:	
<i>The Delivery Project Manager is responsible for managing all the signalling and control systems project delivery to ARTC Standards and Procedures and ensuring that all Design and Testing documentation is submitted to ARTC.</i>		

**We the above 3 positions agree to deliver the project in accordance with all the ARTC Standards and Procedures**

<b>Request Approved by Signal Manager:</b>
Request to be email forwarded by Approving Signal Manager:    select    Date:

<b>Changes to Project Staff from those detailed above. Updated form to be submitted with new names below.</b>		
Signal Design Authority	Name:	Signature:
Signal Document Authority	Name:	Signature:
Delivery Project Manager	Name:	Signature:

**Electronic copy of completed document and scanned copy of document with signatures to be submitted.**