ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L1533 – FABRICATED METAL LINING SYSTEMS

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1 Introduction

1.1 Asset Details

Class Code:	L1533
Class Name:	Fabricated metal lining systems
Class Lineage:	Construction Products**>**Ground treatment and retention products**>**Land/water retention products**>**Retaining units**>**Fabricated metal lining systems

1.2 Description

Cast Iron and fabricated steel segments are used to provide tunnel linings at openings in the running tunnels and at cross-passages.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

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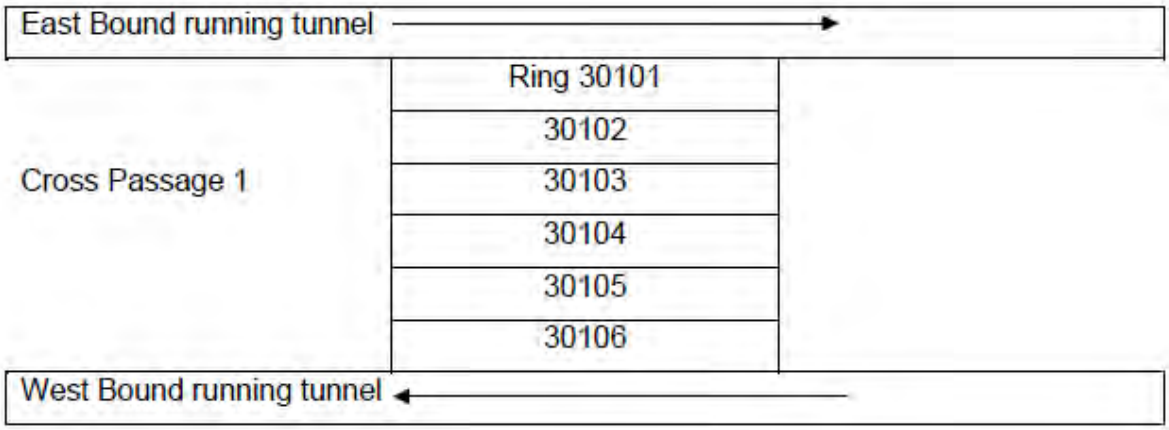

2.1 Example Images

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Height (Metres)	Metres	NU	2		Internal vertical height of opening/cross-passage
Includes Gaskets		PD		Yes No	Is there a gasket behind the adjacent concrete ring
Thickness (Millimetres)	Millimetres	NU	0		Total Thickness of segment/ring
Width (Metres)	Metres	NU	2		Internal width of opening
Cross Passage Diameter (Metres)	Metres	NU	2		Internal diameter of cross passage
Depth of Tunnel (Metres)	Metres	NU	2		Depth of tunnel from surface
Ground Condition		PD		Thames Gravel London Clay Lambeth Group Thanet Sand Chalk	Type of ground condition tunnel is situated in

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
From Meterage (Metres)	Metres	NU	2		The Meterage (Chainage) of the start point of the asset. To be populated only when the start of the asset is located on track.
To Meterage (Metres)	Metres	NU	2		The Meterage (Chainage) of the end point of the asset. To be populated only when the end of the asset is located on track.
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15 Non Track	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets

pd = Predefined List (Listed Values Only)

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nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

6.1 Tunnel Openings

There will be a number of tunnel openings across the Central Section typically either where the running tunnels pass through portal structures and also where ventilation adits/shafts and cross passages intersect the running tunnels.

Where an opening is between a running tunnel and a cross passage, this will be treated as part of the Tunnels function.

Where an opening is between a running tunnel and a Retaining System or between a running tunnel and a ventilation shaft, then the structural elements that generally align with the running tunnel will betreated as part of the Tunnels Function. However, structural elements that are generally perpendicular to the running tunnel will be treated as part of the related Function, such as Retaining Systems, Ventilation or Drainage.

They will be identified by numbering individual sections of an opening starting at the top and counting clockwise around the opening.

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Head of Underground Construction	19-Sep-2014

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