Digital Twin Victoria

Shaping our digital future



eComply Framework Site Context Guidelines

Department of Transport and Planning

V1.1 – December 2023

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1. Background & Purpose

1.1 About eComply

Digital Twin Victoria in partnership with Australian start-up Archistar have delivered digital assessment technology designed to enable builders, building designers to test their 3D building designs against planning codes, making building compliance easier and faster for everyone in the process.

After industry trials and the release of the first commercial solution Digital Twin Victoria has developed an open framework aiming to encourage the adoption of digital building processes and the growth of digital assessment tools.

The framework presents data specifications and computational methodologies to assess building compliance for Victoria's Small Lot Housing Code. The framework can be used by those developing digital solutions, offering data services, or those trying to understand how eComply solutions function.

eComply is one piece of the <u>Digital Twin Victoria program</u>, an investment by the Victorian Government in digital twin technology and spatial innovation to help revolutionise how we plan and manage our built and natural environments.

1.2 Document Purpose

The purpose of this document the Site Context Guidelines is to define a data specification to establish a digital representation of a residential development sites. The audiences of this document include:

- Land surveyors drafting site context products for eComply solutions.
- Computational designers developing eComply assessments.

The digital site context is made up of digital data representing cadastral, planning, elevation data, and BIM models representing the neighbouring infrastructure. The specification has been drafted for design standards from Victoria's Small Lot Housing Code.

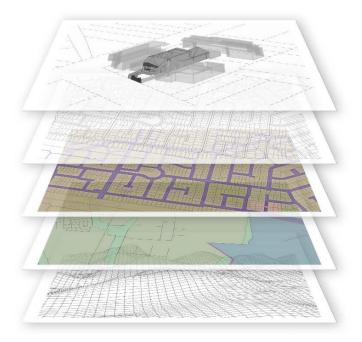


Figure 1 – The digital site context consists of multiple data layers representing the local urban context including digital boundaries, terrain, and the built form.

1.3 Applying the Guidelines

The methodologies within the Guideline can be used to develop commercial tools or digital data products.

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1.4 Companion Documents

The eComply Framework consist of the following documents:

| ID | Document | Description |
|----|--|---|
| 1 | BIM Drafting Guidelines | Guidelines for building designers to model 3D building information supporting eComply building compliance assessment. |
| 2 | Site Context Guidelines (This Document) | Guidelines for land surveyors to provider site context datasets – the 'digital twin' of the development site. |
| 3 | Assessment Practice Note | Computational practices to analyse and assess building compliance against residential design standards |

2. Site Context Specifications

2.1 General Data Specifications

2.1.1 File Formats

eComply solution providers may support all or a subset of the following file format specifications.

Geospatial vector file formats provided in:

- GIS formats such as Shapefile, FileGDB, Geopackage.
- CAD formats such as DXF, and DWG.

CAD datasets must be georeferenced and configured to support the data requirements outlined within this document. An example list of CAD layers has been provided in the appendix.

Elevation / terrain to be provided in

- triangular irregular network or
- digital elevation grid formats.

3D model specifications are provided in the BIM Drafting Guidelines. Make note of reduced requirements for tagging and classification in section 2.3.2 of this document.

2.1.2 Geolocation

Datasets provided in georeferenced using Geocentric Datum of Australia 2020 (GDA2020). Either referenced as GDA2020 (Latitudes and Longitudes) or as MGA2020 projection coordinates (Eastings, Northings and Zone). eComply solutions will define the appropriate coordinate system for the area being assessed.

Heights provided in Australian Height Datum (AHD).

Note: The positional accuracy (and completeness) of datasets impacts the reliability of eComply computations. Any cadastral or elevation datasets representing registered title boundaries must be sourced from a licensed land surveyor. Positional accuracy recommendations are provided throughout the document.

2.2 2D Vector Datasets

2.2.1 Dataset Summary

A summary of vector datasets leveraged by eComply solutions.

| ID | Mand- atory | Dataset | Geometry | Description |
|-----|----------------|--------------------|-------------------------|--|
| VLB | Yes | Lots | 2D Vector - Polygon | Land allotment boundaries for the development site |
| VBC | Yes | Interfaces | 2D Vector - Polyline | Linework representing lot boundary faces with orientation definitions and land use interface definitions |
| VRD | No | Roads | 2D Vector – Polyline | Linework demonstrating road reserve boundaries. |
| VPZ | No | Planinng_ Zones | 2D Vector – Polygon | Planning Zone information with additional restriction information from the scheme |

General guidelines

- Follow the drafting methodology set out in <u>Land Use Victoria's Single CAD Format File</u> (SCFF) but utilise the dataset specifications from this document.
- Complex lot boundaries may not be supported by eComply solutions due to the need to model 3d envelopes from boundaries. A complex boundary contains more than two vertices.

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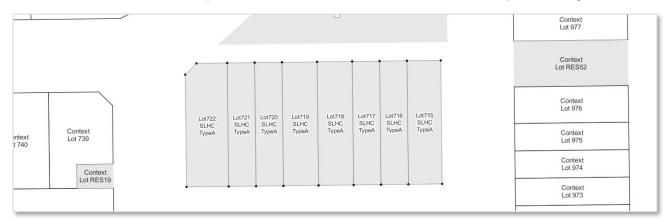
• Linework must be connected, closed, and snapped within each dataset and between datasets (with exception of externally sourced datasets such as planning zones).

2.2.2 Dataset Specifications

Vector data is provided as GIS or CAD formats to the following specification.

Land Title Boundaries (Lots)

eComply solutions use digital land title boundaries to represent the proposed or existing land allotments. The boundaries are referenced in computations such as set-back calculations and envelope modelling.



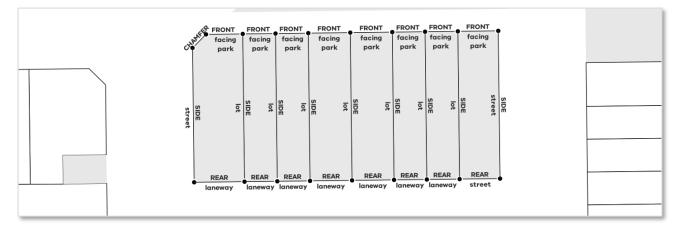
| Figure 2 – Land Title Boundaries for Submission Lots and Context | Lots |
|--|------|
|--|------|

| ID | Layer Naming & Drafting Notes | Data Attributes | Values |
|--------------|---|---|---|
| VLB (GIS) | Dataset Name – Lots Geometry - Drafted as polygon geometry (closed). Do not include any offsets, | F_ID Feature ID (integer) | Number Examples 1 2 3 |
| | easements, or text annotations. Data Lineage / Sourcing – Lot boundaries may be sourced from urban designers, licensed land surveyors, or existing digital products. Only boundaries provided by licensed land surveyors can be used to simulate compliance results by an official permit assessment i.e., by a building surveyor. Lot boundaries from urban designers or existing digital cadastral products may not be representative of the field surveyed boundaries and should be acknowledged as | Lot_No Lot Number (character 12) Plan_No | Text Examples 1 RES Text Examples |
| | | Plan Number (character 9) | LP1234 |
| | | SPI Lot Identifier (character 18) | <u>Text Examples</u> 1\LP1234 RES\LP1234 |
| | an accuracy limitation within any eComply tool. Follow <u>ICSM guidelines</u> for cadastral spatial accuracy requirements. | SitingCode Assessment Code (character 10) | Fixed Text Values SLHC_TypeA SLHC_TypeB CTC_Type1 |
| | Siting Code – Nominated planning code. Information for Small Lot Housing Code is found within title restrictions (s173 agreement, MCP) or nominated by the land developer. | Relating to Small Lot Housing Code site restrictions for types A,B,C used in planning assessments | CTC_Type2 CTC_Type3 (Empty) |
| | | Status Lot Status (character 12) | <u>Fixed Text Values</u> Submission (To be submitted on) Context |

| ID | Layer Naming & Drafting Notes | Data Attributes | Values |
|---------------|--|-----------------|--|
| | | | (Neighbouring) |
| VLB1 (CAD) | Submission Lots (CAD) Layer Name Structure – Lots\$Submission\${Code}\${Typology} | n/a | <u>Code</u> SLHC (Small Lot Housing code) |
| | e.g. | | CTC Cairnlea Townhouse Code |
| | Lots\$Submission\$SLHC\$TypeA Lots\$Submission\$SLHC\$TypeB | | Code Typology |
| | Description – Lots to be assessed by eComply solutions. Code nominated and Typology. | | TypeA TypeB Type1 Type2 |
| | Geometry - Drafted as closed land allotment polygon geometry (closed). Do not include any offsets, easements, or text annotations. | | Type3 <u>Comparable SCFF Layers:</u> LOT-CREATED |
| | See data lineage notes in GIS layer. See comparable Single CAD Format File (SCFF). | | RESTRICTION-CREATED |
| VLB2 | Context Lots (CAD) | n/a | Comparable SCFF Layers: |
| (CAD) | Layer Name – Lots\$Context | | LOT-EXISTING / CREATED / AFFECTED |
| | Description – Lots for neighbouring land titles surrounding the development proposal | | RESERVE-EXSITING / CREATED / AFFECTED |
| | sites. | | STAGE-LOT-EXSITING / CREATED / AFFECTED |
| | Geometry - see VLB1 | | COMMON-PROPERTY- EXSITING / CREATED / AFFECTED |
| | See data lineage notes in GIS layer. See comparable Single CAD Format File (SCFF) | | |
| VLB3 | Lot ID | | Comparable SCFF Layers: |
| | Layer Name – Lots\$ID | | TEXT-LOT-ID |
| | Description – Lot and plan identification for lots provided in other layers. | | TEXT-STAGE-LOT-ID TEXT-COMMON- PROPERTY-ID |
| | Geometry – Annotation / Point | | TEXT-RESERVE-ID |
| | | | |

Interface Boundaries (Interfaces)

The interface boundaries define the orientation of lot boundary face and the land use of neighbouring lots. For example, rear laneway, or side street. Interfaces are leveraged to define setbacks, site access, and fencing requirements.



| Figure 3 - Boundary with labelled 'side' | ' and 'land use' condition | s |
|--|----------------------------|---|
|--|----------------------------|---|

| ID | Layer Naming & Drafting Notes | Data Attributes | Values |
|-------|--|---|-------------------|
| VBC | Dataset Name – Interfaces | F_ID | Number Examples |
| (GIS) | | Feature ID | 1 |
| | Data Lineage / Sourcing – The interface must be | (integer) | 2 |
| | drafted from on the lot boundary polygons used for eComply assessments. Not required for | | 3 |
| | context lots. | Side | Fixed Text Values |
| | | Boundary Side | Front, |
| | Geometry - Drafted as polyline geometry. | (character 10) | Side, |
| | Individual boundary segments running the length along each front, rear, side, splay (chamfer) boundary. | Describes the segment in relation to the desired house orientation. | Rear, Chamfer |
| | Aligning and snapped to lot boundaries for each | | |
| | boundary side with orientations Front, Side, Rear, Chamfer (cut corner). | Interface | Fixed Text Values |
| | Chamer (cut comer). | LandUse Interface | Park |
| | The boundary segment is created once between | (character 20) | Street |
| | the two lots and should either represent the relationship between lots (i.e., side = rear & interface = lots). The interfaces definitions are weighted relative to the submission lot. Therefore, a boundary between a 'submission' lot and a park would be | | Lot |
| | | Describes the conditions on the | Lane |
| | | adjacent lot of the boundary. | Declared Road |
| | | Facing park is used when a park is on other side of street. | Facing Park |
| | | | Street |
| | defined as a park. | | Laneway |
| VBC | Interfaces (CAD) | | Side |
| (CAD) | Layer Name Structure – | | Front |
| | Lots\$Interfaces\${Side}\${Interface} | | Side |
| | e.g. | | Rear |
| | Lots\$Interfaces\$Rear\$Lot | | Chamfer |
| | Lots\$Interfaces\$Front\$Facing_Park | | |
| | | | Interface |
| | Description – Layers comprising all interface | | Park |
| | segments that fit the classification for side and context. One layer per interface combination. | | Street |
| | | | Lot |
| | Geometry – Drafted from assessment lot | | Lane |
| | boundaries in polyline format – see drafting noted | | Declared_Road |
| | above. | | Facing_Park |
| | | | Street |
| | See data lineage notes in GIS layer. | | Laneway |

Road Reserve (Road)

Defines the lot representing the road reserve. Optional layer.

| ID | Drafting Notes | Data Attributes | Values |
|---------------|--|---|---|
| VRD (GIS) | Dataset Name – Roads Land lot representing the road reserve. | F_ID Feature ID (integer) | <u>Number Examples</u> 1 2 3 |
| | Data Lineage / Sourcing – (see Lots - VLB). Declared Road status can be determined by checking VicRoads map of declared roads – or alternatively reviewing precinct. Geometry – Drafted as polygon or polyline– matching existing lot cadastral boundaries | Type Road Classification (character 20) | <u>Fixed Text Values</u> Declared_Road Street Laneway Other |
| | | Name Road Name (character 20) For visualisation only | <u>Text Examples</u> Ridge Road Right of way (empty) |
| VRD1 (CAD) | Roads (CAD) Layer Name Structure – Roads\${Classification} e.g. Roads\$Laneway Roads\$Declared_Road Description – Layers comprising all roads that fit the classification. Geometry – See associated GIS layer See data lineage notes in GIS layer. See comparable Single CAD Format File (SCFF) | n/a | <u>Classification</u> Declared_Road Street Laneway Other <u>Comparable SCFF Layers:</u> ROAD-EXISTING / CREATED / AFFECTED |
| VRD2 | Road_Name (CAD) | n/a | |
| | Description – Annotations of Road names Geometry – Annotation / Point | | |

Planning Zone

Planning zones define the extent of land use zone and restrictions for Victoria's planning scheme. The zones define design standard restrictions such as building height limitations.

| ID | Drafting Notes | Data Attributes | Values |
|-------|-----------------------------------|-----------------|-----------------|
| VPZ | Dataset Name – Planning_Zones | F_ID | Number Examples |
| (GIS) | | Feature ID | 1 |
| | Geographic planning zones sourced | (integer) | 2 |
| | from VicMap. Describing the | | 3 |

| ID | Drafting Notes | Data Attributes | Values |
|---|--|---|--|
| | geographic extent of the gazetted planning zone. | LGA Local Government Area (character45) | <u>Text Examples</u> City of Casey Brimbank City Council |
| | Data Lineage / Sourcing – This information is sourced from the <u>Victorian government</u> . The proposed data model is the minimum required elements from the VicMap Planning | Zone Zone_Code (character10) | Text Examples GRZ1 UGZ13 |
| | dataset. | Height Height Restriction (m) | <u>Number Examples</u> 8 |
| be a incl the sch zon | The Victorian government dataset can be augmented by the supplier to include specific restrictions found in the planning zone scheme and schedule documents relating to the zone. This information can be sourced via <u>Planning Schemes Online</u> | (integer) Sourced from planning zone documents for zone and Iga | 10 |
| | | Stories Maximum Stories (integer) | <u>Number Examples</u> 3 5 |
| | Geometry – Polygon | Sourced from planning zone documents for zone and Iga | |
| VPZ (CAD) | Planning (CAD) | n/a | n/a |
| To provide CAD versions usable by eComply data must be sourced from Victoria and translated in the following format. The following is a suggested structure only. | | | |
| | Layer Name Structure – Zone\${Zone}\${Height}\${Levels} e.g. Zones\$GRZ1 Zones\$UGZ11\$10\$3 | | |

2.3 Elevation & 3D Datasets

2.3.1 Datasets

A summary of elevation and 3D datasets leveraged by eComply solutions.

| | ID | Man dato ry | Dataset | Geometry | Description |
|---|-----|-------------------|-----------|------------|---|
| 1 | EV1 | No | Terrain | TIN / Grid | Elevation data representing the natural ground level for the development site and neighbourhood |
| I | BB1 | No | Buildings | BIM / IFC | 3D building models for the local neighbourhood impacted by the development |

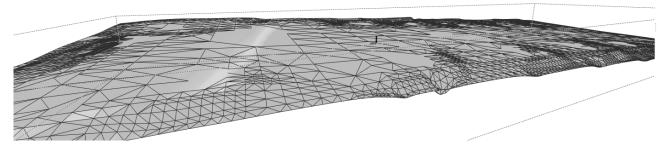
General guidelines

- Elevation datasets must be consistent with cadastral data.
- To encourage timely performance of computations the resolution specifications should not be exceeded, or datasets geographic extent expand far outside the development area.
- eComply solutions may not always support elevation / terrain datasets

2.3.2 Dataset Specifications

Topography (Terrain)

The terrain depicts the surface level as a surveyed ground levels or proposed levels for a development site. eComply solutions use the terrain represent the surface level in measurements.





| ID | Drafting Notes | Specification | Values |
|-----|---|--|----------|
| EV1 | Dataset Name – Terrain | Horizontal (XY) Resolution | < 1m2 |
| | Only elevation data provided by licensed land surveyors can be used to simulate compliance results by an official permit assessment i.e., by a building surveyor. Elevation data from civil engineers or existing digital cadastral products may not be representative of the final or existing surface level and should be acknowledged | | |
| | | Horizontal Accuracy | +/- 0.3m |
| | | Accuracy recommendations for data based on land survey | |
| | | Vertical (Z) Resolution | < 0.3m |
| | | Vertical (Z) Accuracy | < 0.1m |
| | | Accuracy recommendations for data based on land survey | |
| | The elevation data should match the <u>ICSM</u> <u>DEM Classification</u> 'Special' "Surveys required for engineering and infrastructure design" | | |
| | Geometry - Elevation data provided in Triangulated Irregular Network (TIN) format based on irregular points, or gridded points. | | |

Neighbourhood Buildings (Buildings)

The existing built form on neighbouring lots is surveyed and provided in a BIM format. The level of detail (LOD) requirements for BIM models in comparison to models assessed by eComply. Reference the BIM Drafting Guidelines for drafting requirements.

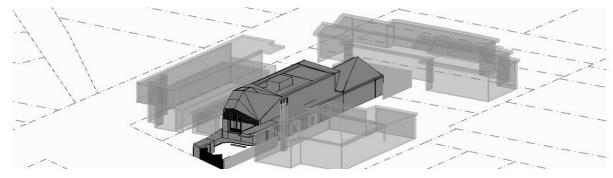


Figure 5 – BIM models for neighbouring lots

| ID | Drafting Notes | Construction Object | IFC Class & Tagging |
|-----|--|--|---|
| BB1 | Dataset Name – Buildings | Walls Any Wall or Fence | Classification: IfcWall |
| | Data Lineage / Sourcing – The buildings must be surveyed and modelled. | | |
| | The buildings surveyed should correspond to the building definitions in the Building Regulations 2018 – classes 1, 2, 10. | Windows Any external window. Mark as Habitable via parameter. | Classification: IfcWindow Parameter: IsHabitable (Y/N) WindowSillAHD (123) |
| | Models include walls, roof, windows, any structure with a wall-on-boundary, and secluded private open space must be nominated. Reference the BIM Drafting Guideline for drafting methodologies and | Private Open Space Any secluded or private open space modelled as a space. | Classification: IfcSpace Parameter: IsPrivateOpenSpace (Y) |
| | classification. | Site Boundary | Classification: IfcSite |
| | The AHD heights of windows is recorded to position the models correctly. | Lot boundary for building | |
| | Buildings must be sited onto their lot boundary within the BIM model to demonstrate their position relative to the lot with a georeferenced point (including elevation) on either the LHS or RHS of the lot frontage. | | |

3. Managing Site Context

Digital Twin Victoria recommends eComply solutions include the following functionality for managing site context information:

| Functionality | Recommendation |
|--|--|
| Data Import | Import georeferenced vector and 3D data |
| Version Management | As the cadastral information will regularly change throughout a development lifecycle the site context information should allow multiple versions to be imported. |
| Metadata | The version, data sources, lineage, and known limitations should be communicated to users so they are aware the reliability of the digital compliance assessments. For example, if cadastral data comes from existing digital cadastre products it is not a trustworthy representation of a title boundary and the limitation must be known by the user. |
| Site template extracts | A building designer should be able to extract the site context to their BIM authoring software to site their building. |
| Siting of Neighbourhood BIM models | Neighbourhood BIM models should be able to be positioned with confidence based off the site surveys of licensed land surveyors. |

4. Appendix

4.1 CAD layers based on feature classifications

CAD layer names based on the original Archistar Comply implementation with the following structure.

| Yes LotsStubmissionSSLHC\$TypeA Polygon Submission lots for SLHC Yes LotsStubmissionSSLHC\$TypeB Polygon Submission lots for SLHC Yes LotsStubmissionSSLHC\$TypeB Polyline Boundary definition for side and interface Yes LotsStubmissionSSLHC\$TypeB Polyline Boundary definition for side and interface Yes LotsStubmissionSSLHC\$TypeA Polyline Boundary definition for side and interface Yes LotsStubmissionSSLHC\$TronSFacing_Park Polyline Boundary definition for side and interface Yes LotsStubmissionStreat Polyline Boundary definition for side and interface Yes LotsStubmissionStreat Polyline Boundary definition for side and interface Yes LotsStubmissionStreat Polyline Boundary definition for side and interface Yes LotsStubmissionStabes Polyline Boundary definition for side and interface Yes LotsStubmissionStabes Polyline Boundary definition for side and interface Yes LotsStubmissionStabes Polyline Boundary definition for side and interface Yes LotsStubmissionStab | Manda tory | Dataset / Layer | Geometry | Description |
|--|---------------|--|----------|--|
| Yes LotsSInterfacesSFrontSPark Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSStreet Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLot Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSFrontSCate Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSCate Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLaneway Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane_Park Polyline Boundary definition for side and interface | | Lots\$Submission\$SLHC\$TypeA | Polygon | Submission lots for SLHC |
| Yes LotsSInterfacesSFrontSStreet Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSEaring_Park Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSEaret Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSEaret Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEaret Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEaret Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEared Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEared Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEared Polyline Boundary definition for side and interface Yes LotsSInterfacesSFiceSEared Polyline Boundary definitin for side and interface | Yes | Lots\$Submission\$SLHC\$TypeB | Polygon | Submission lots for SLHC |
| Yes LotsSInterfacesSFrontSLot Polyline Boundary definition for side and interface Yes LotsSinterfacesSFrontSLane Polyline Boundary definition for side and interface Yes LotsSinterfacesSFrontSDeclared_Road Polyline Boundary definition for side and interface Yes LotsSinterfacesSFrontSExtreet Polyline Boundary definition for side and interface Yes LotsSinterfacesSFrontSExtreet Polyline Boundary definition for side and interface Yes LotsSinterfacesSFiceSSideSPark Polyline Boundary definition for side and interface Yes LotsSinterfacesSSideSLot Polyline Boundary definition for side and interface Yes LotsSinterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSinterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSinterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSinterfacesSSideSLaneway Polyline Boundary definition for side and interface Yes LotsSinterfacesSRearSSark Polyline Boundary definition for side and interface | Yes | Lots\$Interfaces\$Front\$Park | Polyline | Boundary definition for side and interface |
| Yes LotsSInterfacesSFrontSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSDeclared_Road Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSEacing_Park Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLaneway Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSPark Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLot Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLot Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSReafSPark Polyline Boundary definition for side and interface < | Yes | Lots\$Interfaces\$Front\$Street | Polyline | Boundary definition for side and interface |
| Yes LotsSInterfacesSFrontSDeclared_Road Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSFacing_Park Polyline Boundary definition for side and interface Yes LotsSInterfacesSFrontSLaneway Polyline Boundary definition for side and interface Yes LotsSInterfacesSFicet Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSPark Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLot Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLot Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSDeclared_Road Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLane Polyline Boundary definition for side and interface Yes LotsSInterfacesSideSLane Polyline Boundary definition for side and interface | Yes | Lots\$Interfaces\$Front\$Lot | Polyline | Boundary definition for side and interface |
| Yes Lots\$Interfaces\$Front\$Facing_Park Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Front\$Laneway Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Front\$Laneway Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Park Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lot Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lot Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lane Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Eane_Road Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Eaneway Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Eare Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Lot Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Lane Polyline Boundary definition for side and interface < | Yes | Lots\$Interfaces\$Front\$Lane | Polyline | Boundary definition for side and interface |
| Yes Lots\$Interfaces\$Front\$Street Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Front\$Laneway Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Exret Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lat Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lane Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Lane Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Eared_Road Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Side\$Eareet Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Erest Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Erest Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Erest Polyline Boundary definition for side and interface Yes Lots\$Interfaces\$Rear\$Lane Polyline Boundary definition for side and interface <td>Yes</td> <td>Lots\$Interfaces\$Front\$Declared_Road</td> <td>Polyline</td> <td>Boundary definition for side and interface</td> | Yes | Lots\$Interfaces\$Front\$Declared_Road | Polyline | Boundary definition for side and interface |
| Yes LotsSinterfaces\$Front\$Laneway Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Park Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Street Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Lot Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Lot Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Declared_Road Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Eare Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Eare Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Side\$Eareway Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Rear\$Street Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Rear\$Lot Polyline Boundary definition for side and interface Yes LotsSinterfaces\$Rear\$Lane Polyline Boundary definition for side and interface | Yes | Lots\$Interfaces\$Front\$Facing_Park | Polyline | Boundary definition for side and interface |
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| Yes Lots\$Interfaces\$Chamfer\$Street Polyline Boundary definition for side and interface | Yes | | Polyline | Boundary definition for side and interface |
| | Yes | Lots\$Interfaces\$Chamfer\$Facing_Park | Polyline | Boundary definition for side and interface |
| Yes Lots\$Interfaces\$Chamfer\$Laneway Polyline Boundary definition for side and interface | Yes | Lots\$Interfaces\$Chamfer\$Street | Polyline | Boundary definition for side and interface |
| | Yes | Lots\$Interfaces\$Chamfer\$Laneway | Polyline | Boundary definition for side and interface |

| Manda tory | Dataset / Layer | Geometry | Description |
|---------------|----------------------|------------|--|
| No | Lots\$Context | Polygon | Lots for neighbouring site |
| No | Roads\$Declared_Road | Polygon | Road reserve classified by hierarchy |
| No | Roads\$Street | Polygon | Road reserve classified by hierarchy |
| No | Roads\$Laneway | Polygon | Road reserve classified by hierarchy |
| No | Roads\$Other | Polyline | Unknown roads |
| No | Lot\$ID | Annotation | Lot and Plan IDs |
| No | Roads\$Name | Annotation | Road Names |
| No | Zones\$GRZ2\$11.5\$3 | Polygon | Example Only: Planning Zone for Casey City Council with Height limitations from planning schedule |
| No | Zones\$UGZ3 | Polygon | Example Only: Planning Zone for Casey City Council where no addition specifications apply |

5. Document Control

Contact for Enquiries

Please address any questions regarding this document to:

Email: digitaltwinvictoria@delwp.vic.gov.au

Document History

| Version Date | | Author | Summary of changes |
|--------------|------------|--------------|--------------------|
| 1.1 | 20 12 2023 | Luke Bassett | Document Release |