APPENDIX B

Geological Plans



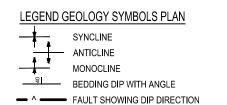
MELBOURNE METRO RAIL PROJECT **GEOLOGICAL PLAN**



PROPOSED STATION EXTENT IN PLAN CONTROL LINE PROPOSED WESTBOUND RAIL TUNNEL CONTROL LINE PROPOSED EASTBOUND RAIL TUNNEL INDICATIVE RAIL INFRASTRUCTURE

LEGEND GEOLOGY

Coode Island Silt Newer Volcanics Pleistocene Alluvium Brighton Group Older Volcanics Sud Melbourne Formation



- INFERRED TREND ANTICLINE \ SYNCLINE

SOURCE GSV MURL AURECON (1959) AURECON (2010) GOLDER (2015)

NOTES

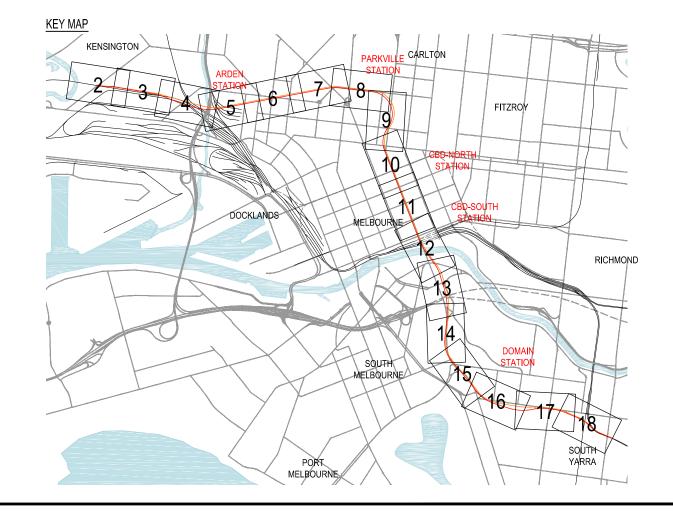
- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES TO AHD.
- ALL CO-ORDINATES ARE IN METRES TO MGA-55.
- GEOLOGICAL UNITS SHOWN ARE SIMPLIFIED AND MATERIAL COMPOSITION AND STRENGTH CAN VARY CONSIDERABLY WITHIN GEOLOGICAL UNIT.
- BOUNDARIES BETWEEN GEOLOGICAL UNITS ARE INFERRED ONLY AND SUBJECT TO CHANGE AS FURTHER SUBSURFACE INFORMATION BECOMES AVAILABLE.
- AERIAL PHOTOGRAPH HAS 50% TRANSPARENCY APPLIED.
- EXISTING STRUCTURES ARE INDICATIVE ONLY.

REFERENCES

- TUNNEL ALIGNMENT BASED ON PROPOSED RAIL ALIGNMENT (REVISION 2.3) SOURCED FROM AJM JV, FILE <MMR-AJM-PWAA-M2-DD-D08000-TRACK.DWG> AND <MMR-AJM-PWAA-M2-DD-D08000-PROF.DWG>, RECEIVED BY GOLDER ASSOCIATES 28-10-2015. TUNNEL INFRASTRUCTURE SOURCED FROM AJM-JV FILE <MMR-AJM-PWAA-M2-CS-
- D05000-TNNL-STR.dwg>, RECEIVED BY GOLDER 16-11-2015.
- STATION EXTENTS (REVISION 3.3) SOURCED FROM AJM JV, DWG FILE < MMR-AJM-PMAA-M2-DD-D05000_STN_EXTENT.dwg>, RECEIVED BY GOLDER ASSOCIATES 16-11-2015.
- AERIAL PHOTOGRAPH DATE OF CAPTURE OCTOBER 2014, IMAGE RESOLUTION 10 cm, SOURCED FROM PUBLIC TRANSPORT VICTORIA.
- TOPOGRAPHY, ROADS AND RAIL DATA SOURCED FROM VICMAP 2013.

FIGURE LIST MMR-AJM-PWAA-DR-NN-500490

KEY MAP, LEGEND AND NOTES





MELBOURNE **METRO RAIL**



Melbourne Metro Rail Project

GEOLGICAL PLAN Drawing Number

SHEET 1 OF 18 Revision

MMR-AJM-PWAA-DR-NN-500490

P1.1 Drawn By Approved By Map Size 23-03-2016 **GOLDER**



Note: Surface works are not shown





- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.



Surface works are not shown



NOT FOR CONSTRUCTION





Melbourne Metro Rail Project

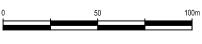
Title GEOLOGICAL PLAN

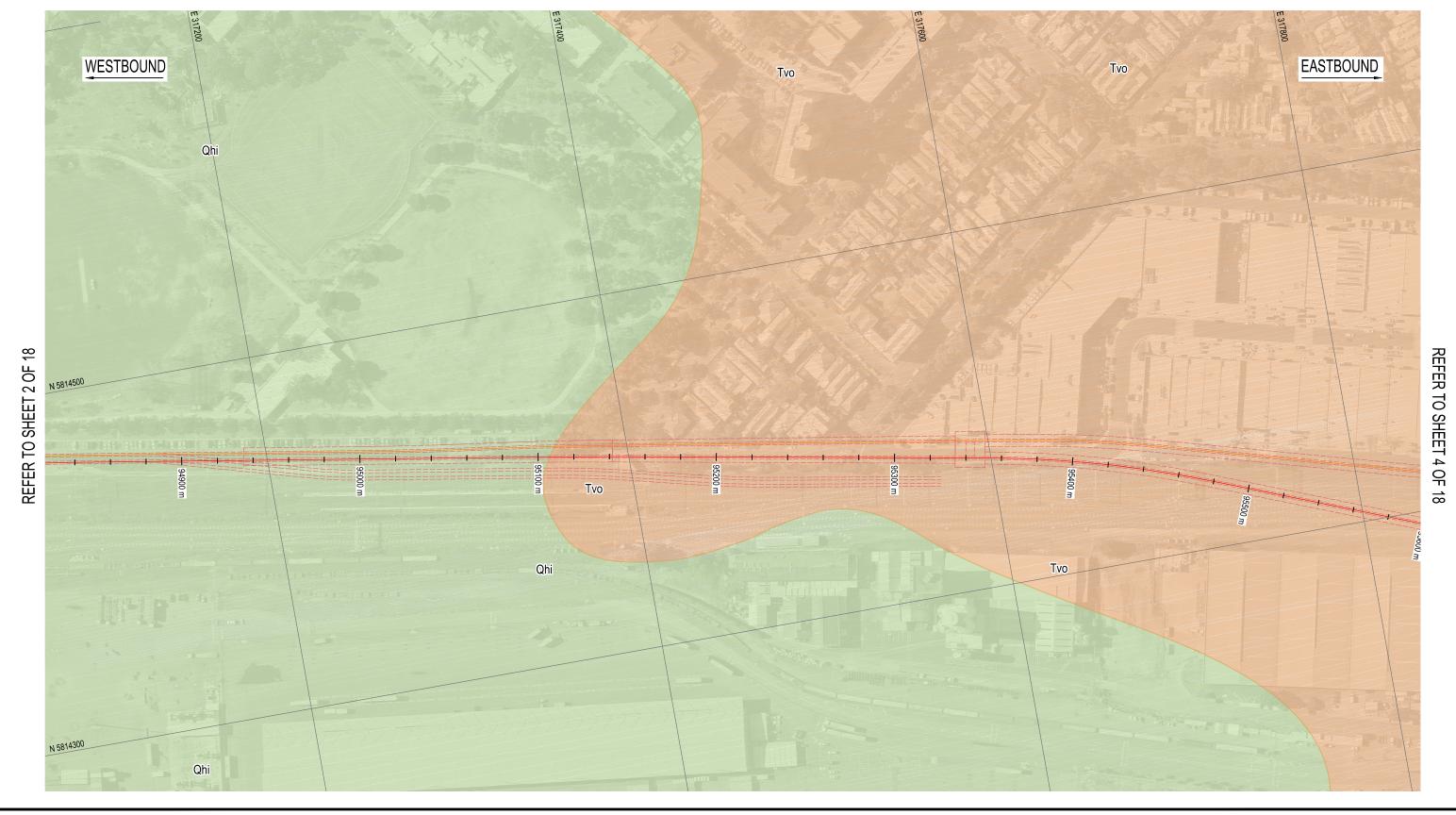
SHEET 2 OF 18 Revision P1.1

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Approved By Date SLVB 23-03 Drawn By Map Size GOLDER 23-03-2016







NOT FOR CONSTRUCTION



- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Note:

Surface works are not shown







Melbourne Metro Rail Project

Title GEOLOGICAL PLAN

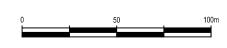
SHEET 3 OF 18

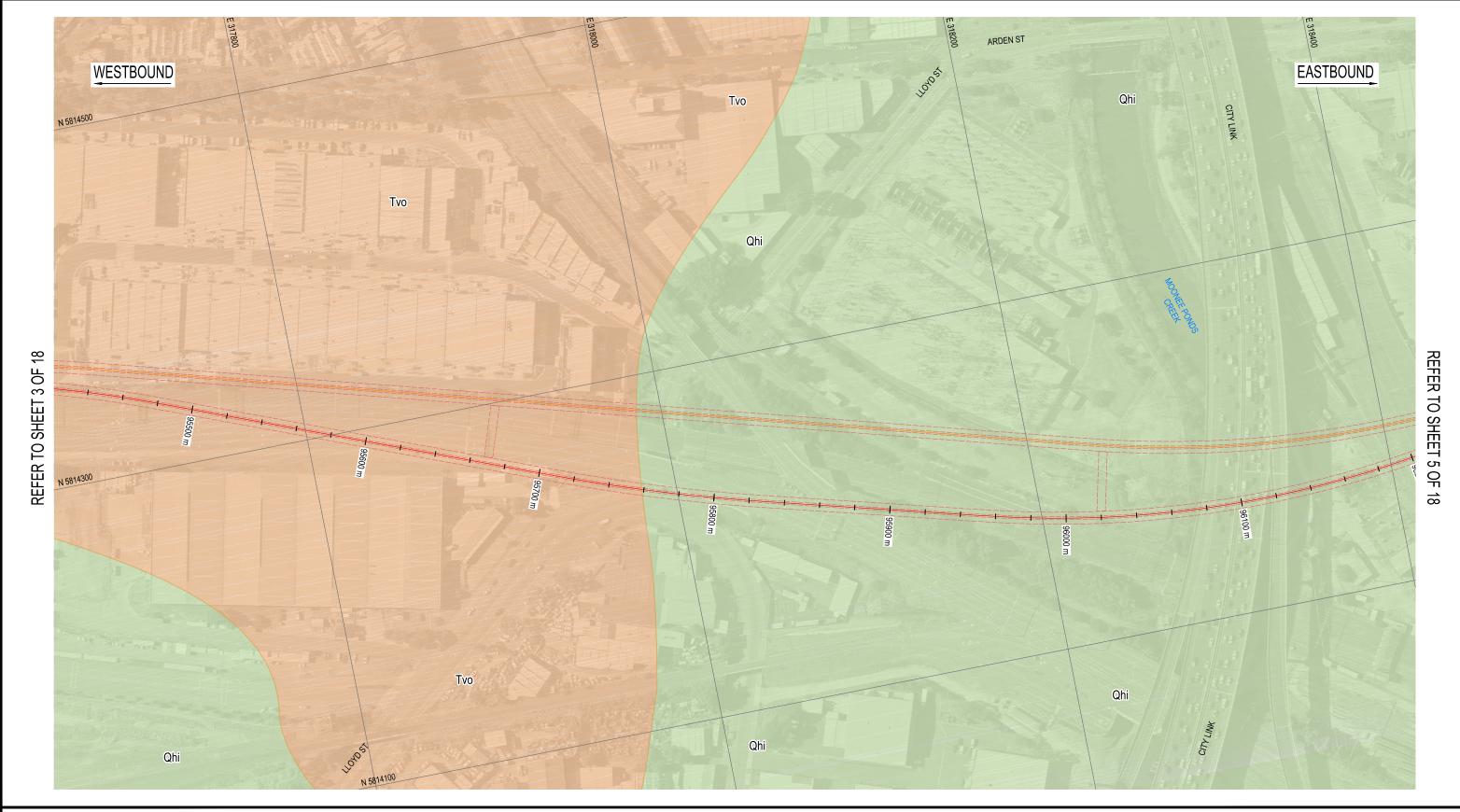
Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Drawn By GOLDER

Revision P1.1 Approved By Date
SLVB 23-03-2016 Map Size









- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Surface works are not shown







Melbourne Metro Rail Project

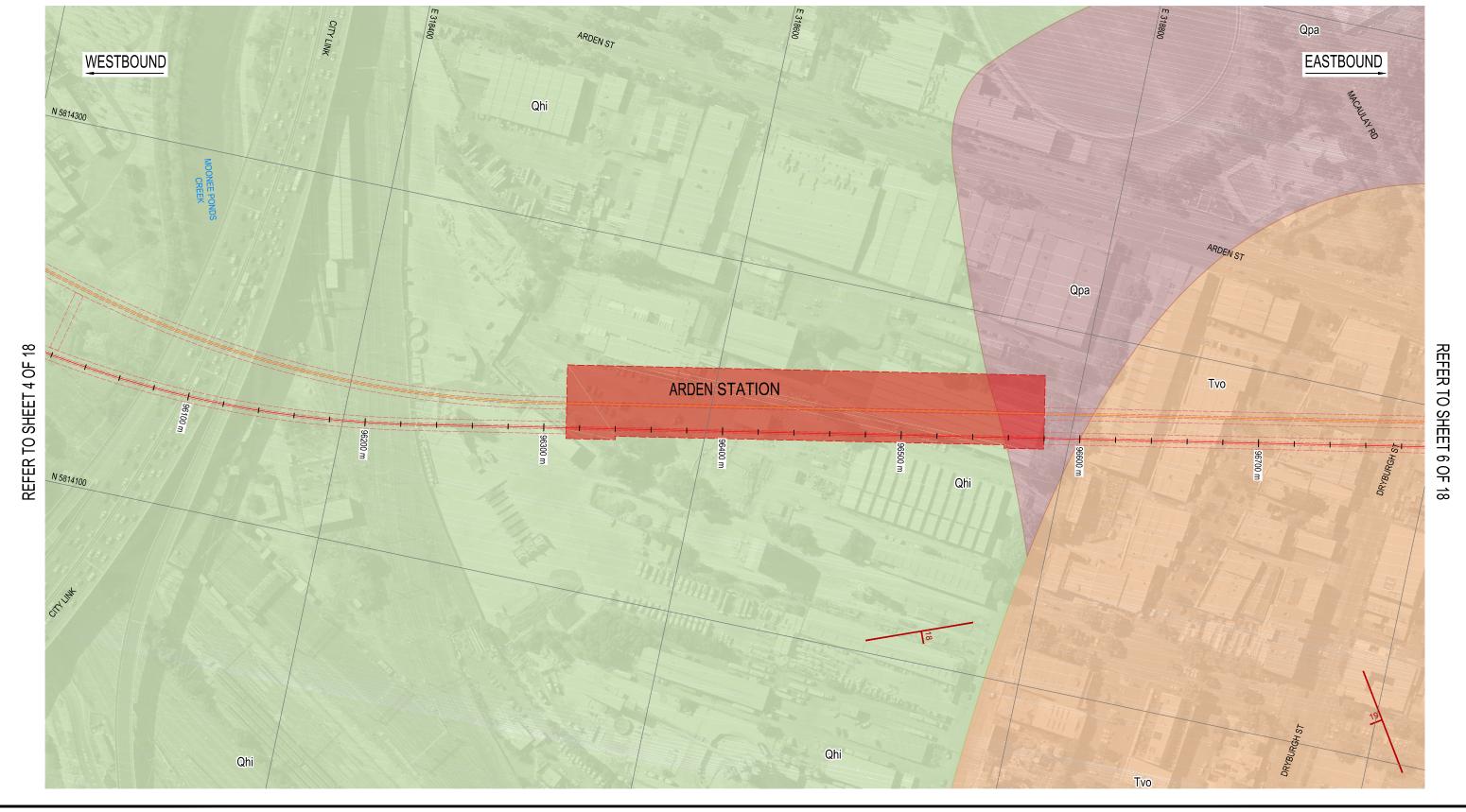
Title GEOLOGICAL PLAN

SHEET 4 OF 18

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Revision P1.1 Approved By Date SLVB 23-03 Drawn By Map Size GOLDER 23-03-2016







- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Surface works are not shown



MELBOURNE METRO RAIL AUTHORITY



Melbourne Metro Rail Project

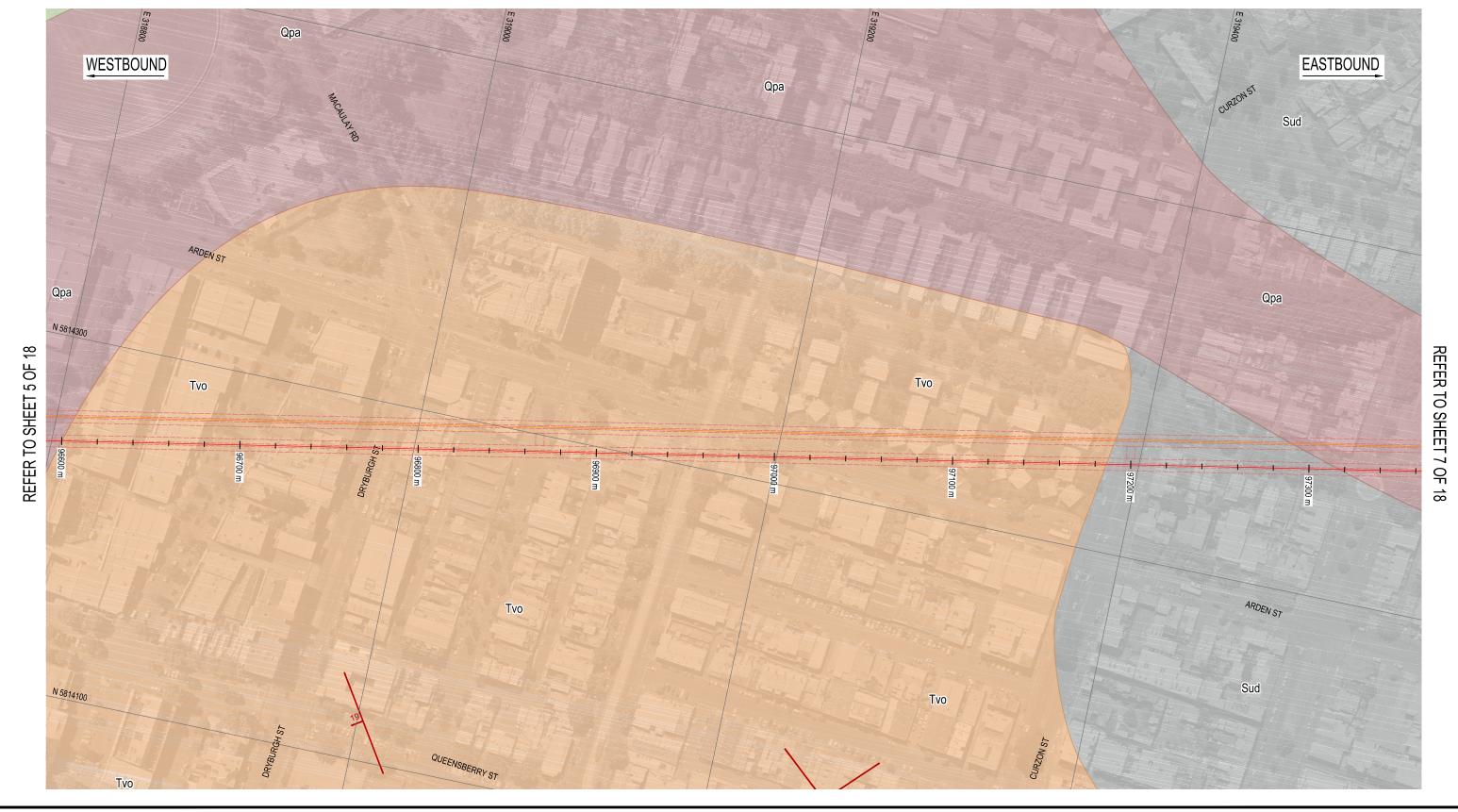
Title GEOLOGICAL PLAN

SHEET 5 OF 18 Revision P1.1

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Drawn By Approved By Date SLVB 23-03-2016 Map Size GOLDER







- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Surface works are not shown







Melbourne Metro Rail Project

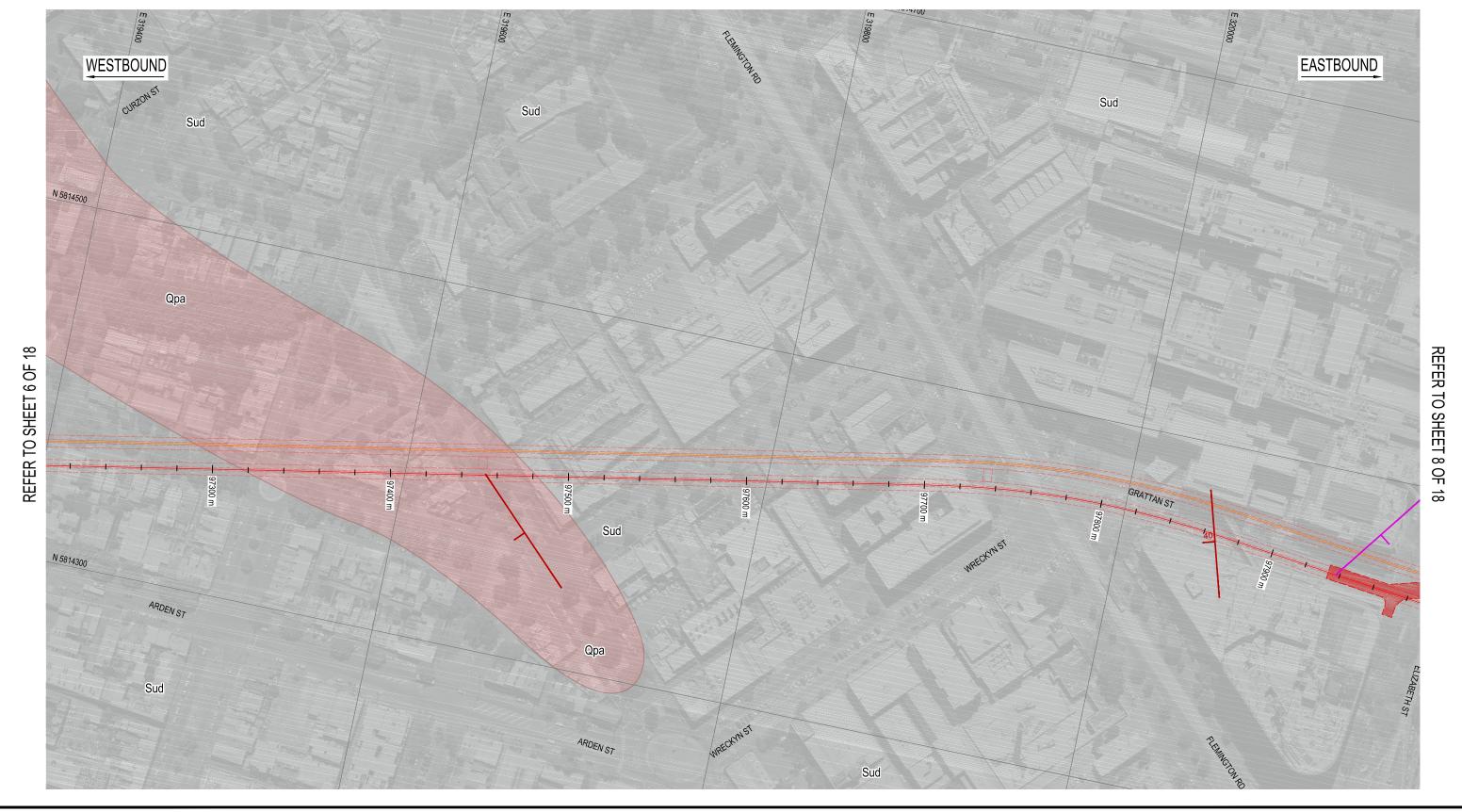
Title GEOLOGICAL PLAN

SHEET 6 OF 18

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Revision P1.1 Drawn By Approved By Date SLVB 23-03 Map Size 23-03-2016 GOLDER A3





NOT FOR CONSTRUCTION



- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Note:

Surface works are not shown







Melbourne Metro Rail Project

Title GEOLOGICAL PLAN

SHEET 7 OF 18 Revision P1.1

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Drawn By GOLDER Approved By Date SLVB 23-03

Map Size 23-03-2016 A3









- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Surface works are not shown







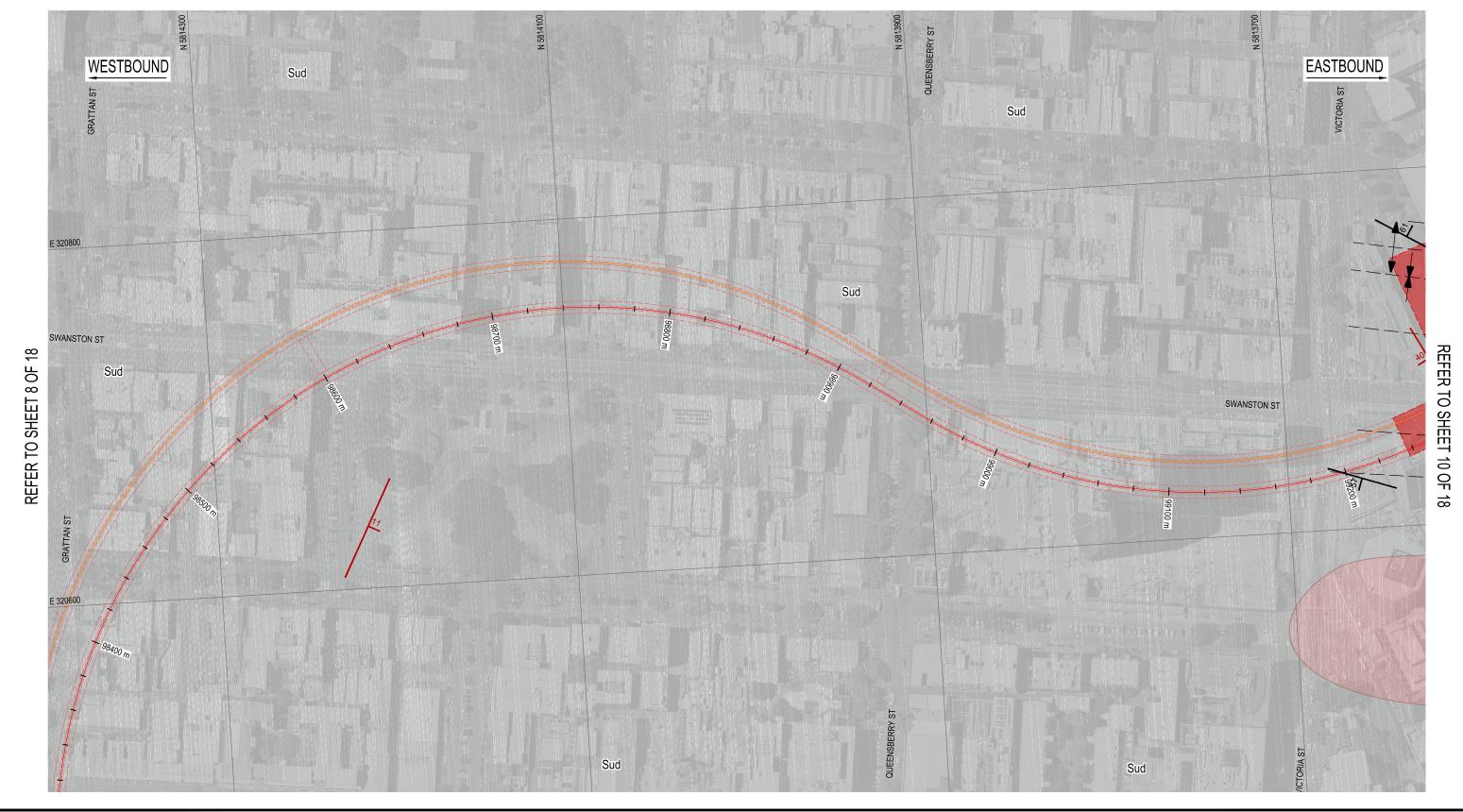
Melbourne Metro Rail Project

Title GEOLOGICAL PLAN SHEET 8 OF 18

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Revision P1.1 Drawn By Approved By Date SLVB 23-03 Map Size GOLDER 23-03-2016





PRELIMINARY ISSUE

- NOTES

 1. REFER FIGURE MMR-AJM-PWAA-DR-NN-500490, SHEET 1 OF 18 FOR NOTES AND LEGEND.
 2. ALL LEVELS ARE IN METRES TO AHD.
 3. ALL COORDINATES ARE IN METRES TO MGA-Z55
 4. INTERPRETED SURFICIAL GEOLOGY SHOWN ON PLAN TO BE USED FOR EES PURPOSES ONLY.

Note:

Surface works are not shown







Melbourne Metro Rail Project

Title GEOLOGICAL PLAN

SHEET 9 OF 18 Revision P1.1

Drawing Number
MMR-AJM-PWAA-DR-NN-500490

Approved By Date SLVB 23-03-2016 Drawn By Map Size GOLDER

