PRELIMINARY ONLY

NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
COVER PAGE
SHEET 01

PTA Drawing No: 25-A-285-AR0001 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DRAWING LIST

Drawing Number	Sheet Title	Revision
25-A-285-AR0001	COVER PAGE - SHEET 01	A
25-A-285-AR0002	DRAWING LIST - SHEET 01	A
25-A-285-AR0010	OVERALL PLANS - LOCATION PLAN	A
25-A-285-AR0012	OVERALL PLANS - LIMIT OF WORKS PLAN	A
25-A-285-AR0015	STATION OVERALL PLAN - PLATFORM LEVEL	A
25-A-285-AR0016	STATION OVERALL PLAN - CONCOURSE LEVEL	A
25-A-285-AR0017	STATION OVERALL PLAN - ROOF LEVEL	A
25-A-285-AR0018	STATION OVERALL PLAN - BUS INTERCHANGE PLAN	A
25-A-285-AR0019	BUS INTERCHANGE - BUS INTERCHANGE ROOF PLAN	A
25-A-285-AR0024	OVERALL ELEVATIONS - STATION OVERALL ELEVATIONS	A
25-A-285-AR0026	OVERALL SECTIONS - OVERALL SECTIONS	A
25-A-285-AR0040	GENERAL ARRANGEMENT FLOOR PLAN - PLATFORM LEVEL - SHEET 1	A
25-A-285-AR0041	GENERAL ARRANGEMENT FLOOR PLAN - PLATFORM LEVEL - SHEET 2	A
25-A-285-AR0042	GENERAL ARRANGEMENT FLOOR PLAN - PLATFORM LEVEL - SHEET 3	A
25-A-285-AR0043	GENERAL ARRANGEMENT FLOOR PLAN - CONCOURSE LEVEL - SHEET 1	A
25-A-285-AR0044	GENERAL ARRANGEMENT FLOOR PLAN - CONCOURSE LEVEL - SHEET 2	A
25-A-285-AR0045	GENERAL ARRANGEMENT FLOOR PLAN - CONCOURSE LEVEL - SHEET 3	A
25-A-285-AR0070	REFLECTED CEILING PLAN - PLATFORM LEVEL - SHEET 1	A
25-A-285-AR0071	REFLECTED CEILING PLAN - PLATFORM LEVEL - SHEET 2	A
25-A-285-AR0072	REFLECTED CEILING PLAN - PLATFORM LEVEL - SHEET 3	A
25-A-285-AR0073	REFLECTED CEILING PLAN - CONCOURSE LEVEL - SHEET 1	A
25-A-285-AR0074	REFLECTED CEILING PLAN - CONCOURSE LEVEL - SHEET 2	A
25-A-285-AR0075	REFLECTED CEILING PLAN - CONCOURSE LEVEL - SHEET 3	A
25-A-285-AR0080	GENERAL ARRANGEMENT - LONG ELEVATION - SHEET 1	A
25-A-285-AR0081	GENERAL ARRANGEMENT - LONG ELEVATION - SHEET 2	A
25-A-285-AR0082	GENERAL ARRANGEMENT - LONG ELEVATION - SHEET 3	A
25-A-285-AR0083	GENERAL ARRANGEMENT - SHORT ELEVATION	A
25-A-285-AR0084	GENERAL ARRANGEMENT - SECTION - SHEET 1	A
25-A-285-AR0085	GENERAL ARRANGEMENT - SECTION - SHEET 2	A
25-A-285-AR0086	GENERAL ARRANGEMENT - SECTION - SHEET 3	A
25-A-285-AR0087	OVERALL ELEVATIONS - MSCP ELEVATIONS	A
25-A-285-AR0088	ENLARGED PLANS - MSCP SECTIONS	A
25-A-285-AR0095	ENLARGED PLANS - PTA DECKED CARPARK	A
25-A-285-AR0096	ENLARGED PLANS - PTA DECKED CARPARK	A
25-A-285-AR0097	ENLARGED PLANS - PTA DECKED CARPARK	A
25-A-285-AR0098	ENLARGED PLANS - PTA DECKED CARPARK	A

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

Government of Western Australia Public Transport Authority

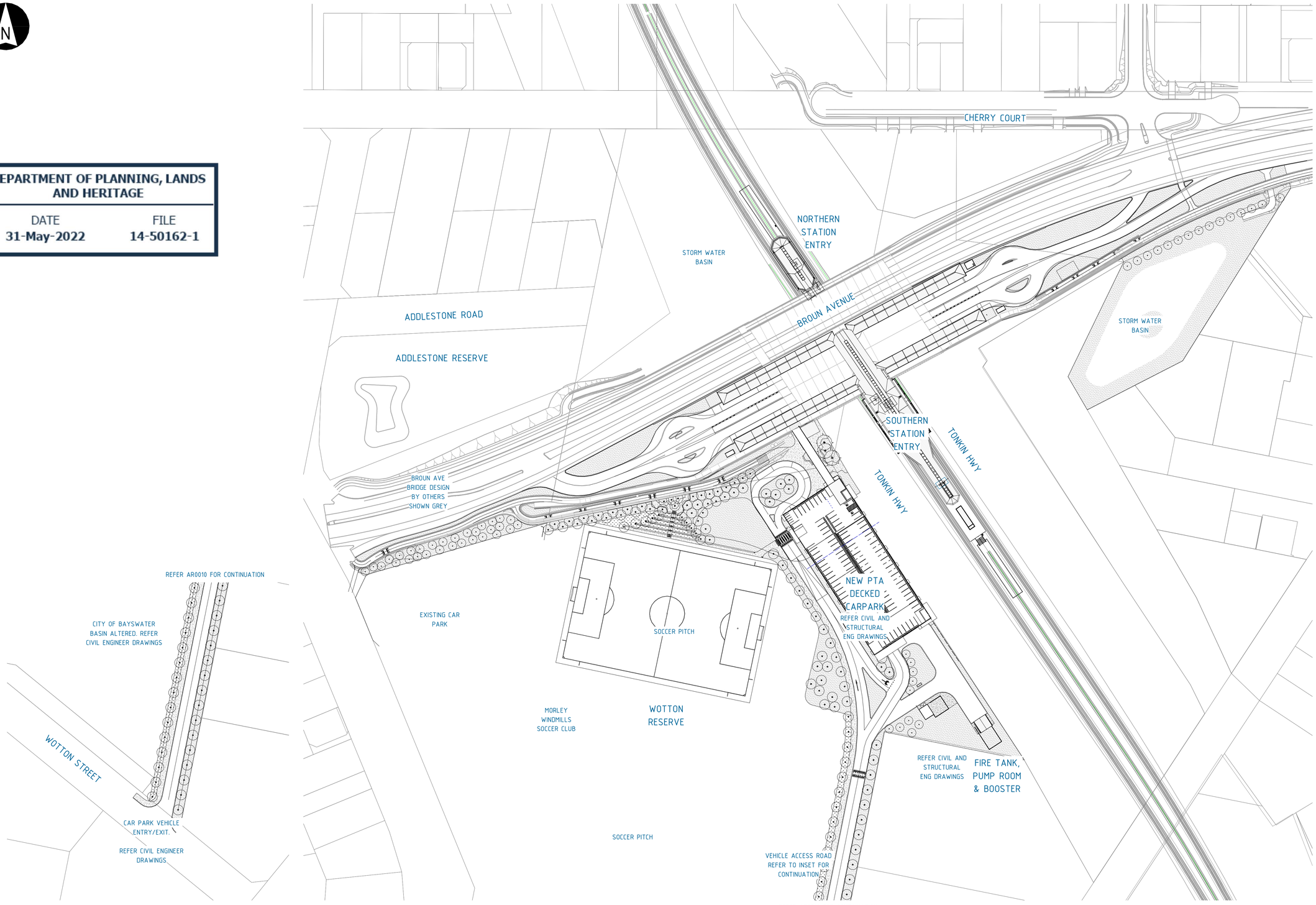
MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
DRAWING LIST
SHEET 01

PTA Drawing No: 25-A-285-AR0002 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1



2 MORLEY STATION ENTY

1 MORLEY STATION - LOCATION PLAN / SITE PLAN
SCALE 1 : 1000

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	28.03.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

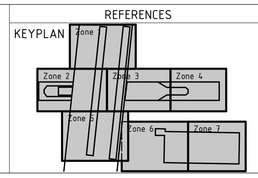
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 1000 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	28.03.22

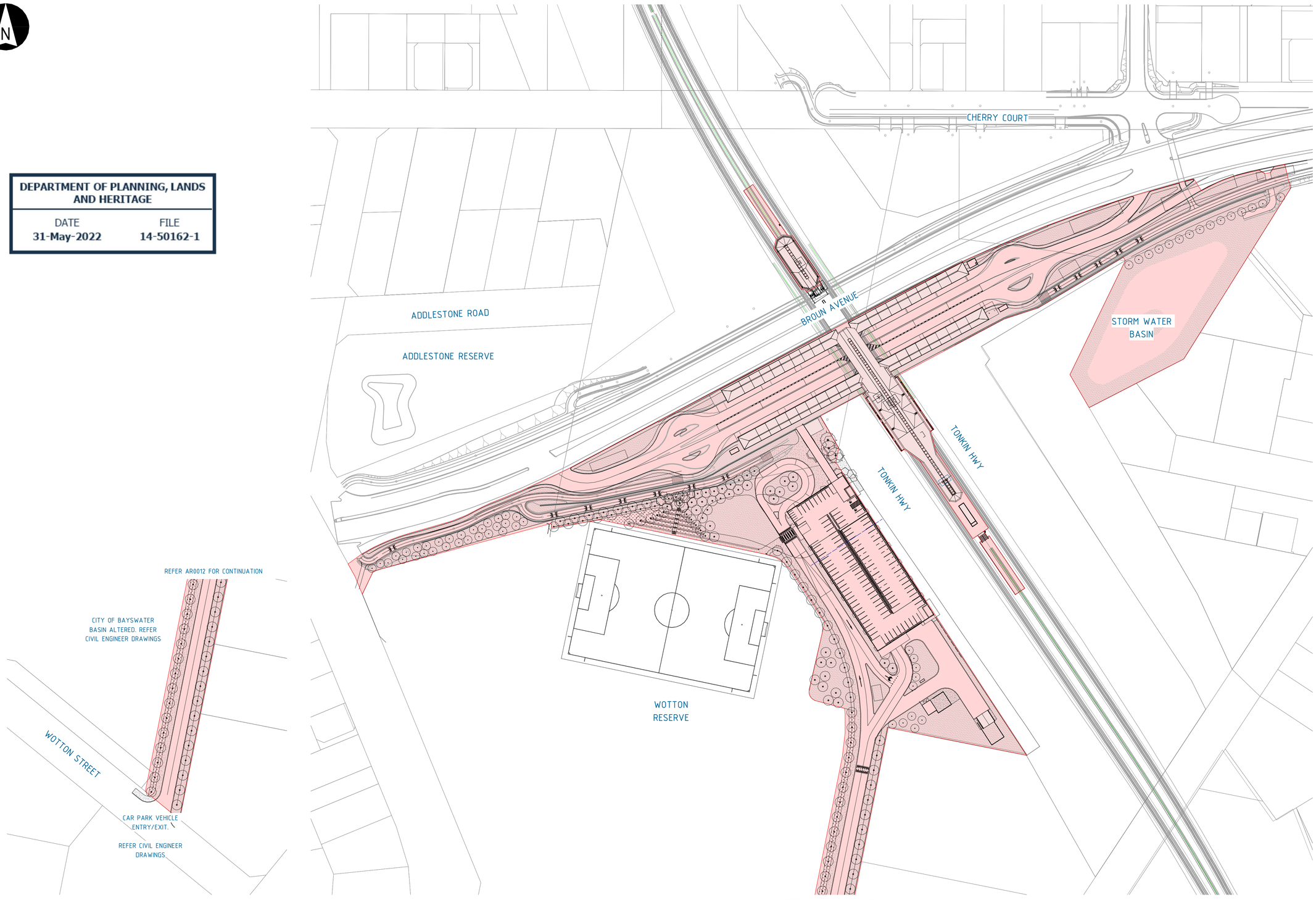
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
OVERALL PLANS
LOCATION PLAN

PTA Drawing No: 25-A-285-AR0010 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



2 MORLEY STATION ENTY - LIMIT OF WORKS

1 MORLEY STATION - LIMIT OF WORKS

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

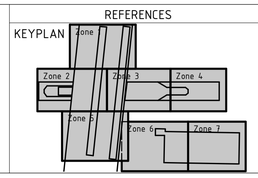
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	28.03.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1 — 0 10 20 30 40 50 100mm — AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 1000 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 28.03.22

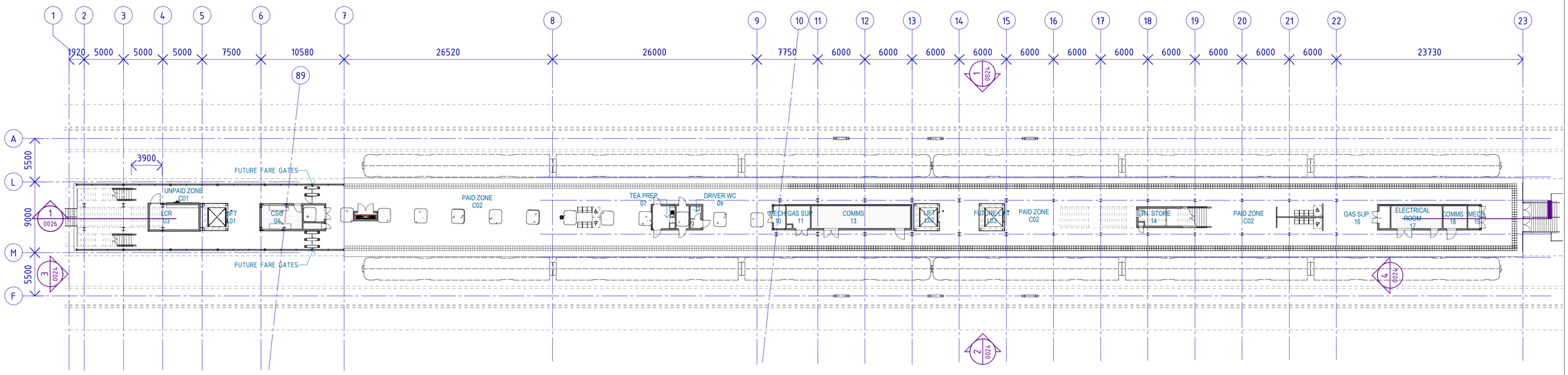
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
OVERALL PLANS
LIMIT OF WORKS PLAN

PTA Drawing No: 25-A-285-AR0012 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD – PTA REVIEW	JM	BT	DOB	

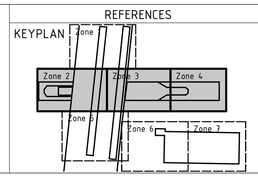
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

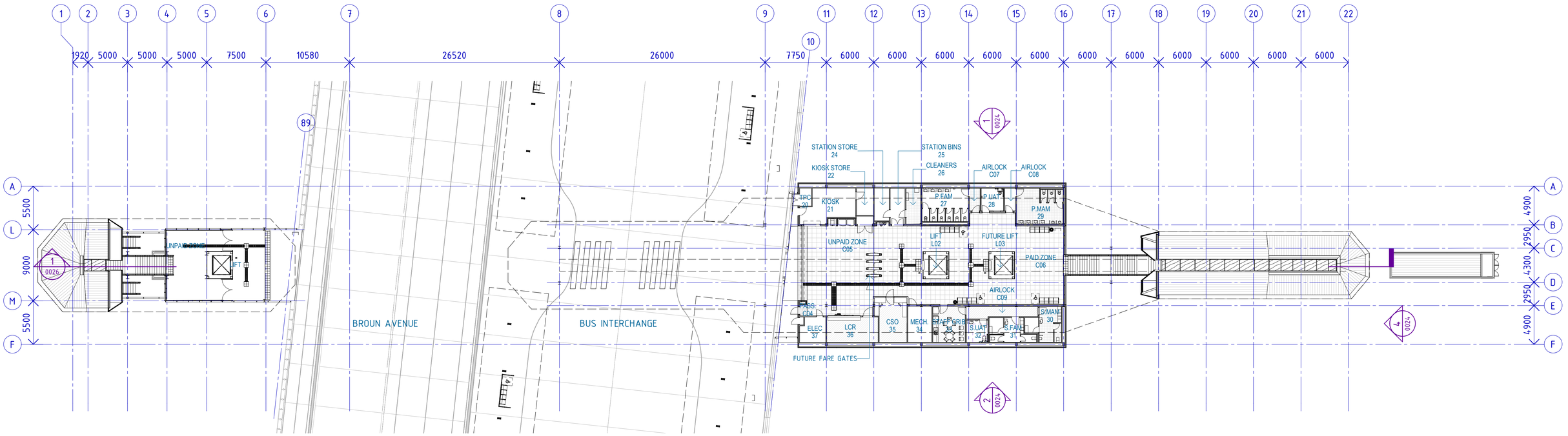
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION – ARCHITECTURE
STATION OVERALL PLAN
PLATFORM LEVEL

PTA Drawing No: 25-A-285-AR0015 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

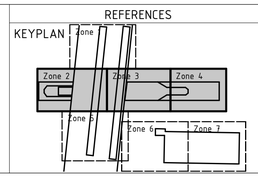
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

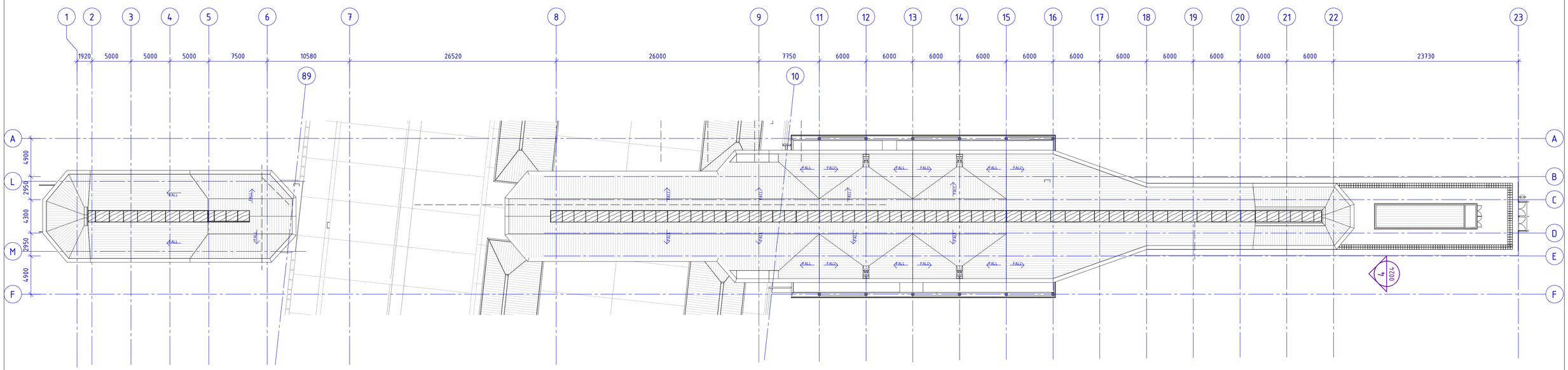
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
STATION OVERALL PLAN
CONCOURSE LEVEL

PTA Drawing No: 25-A-285-AR0016 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 ROOF - OVERALL

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

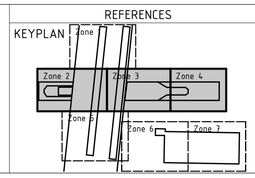
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

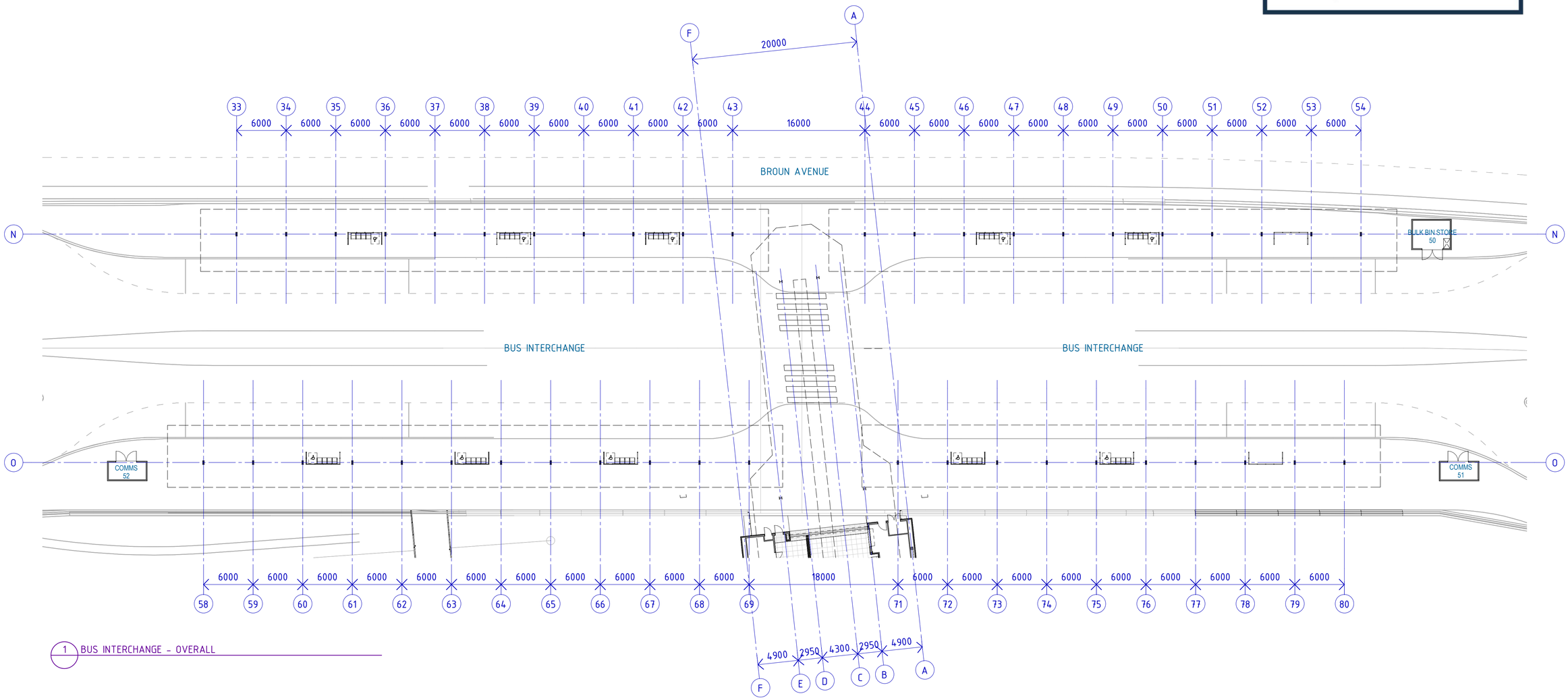
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
STATION OVERALL PLAN
ROOF LEVEL

PTA Drawing No: 25-A-285-AR0017 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 BUS INTERCHANGE - OVERALL

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

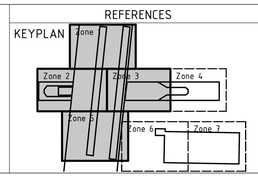
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

Government of Western Australia
Public Transport Authority

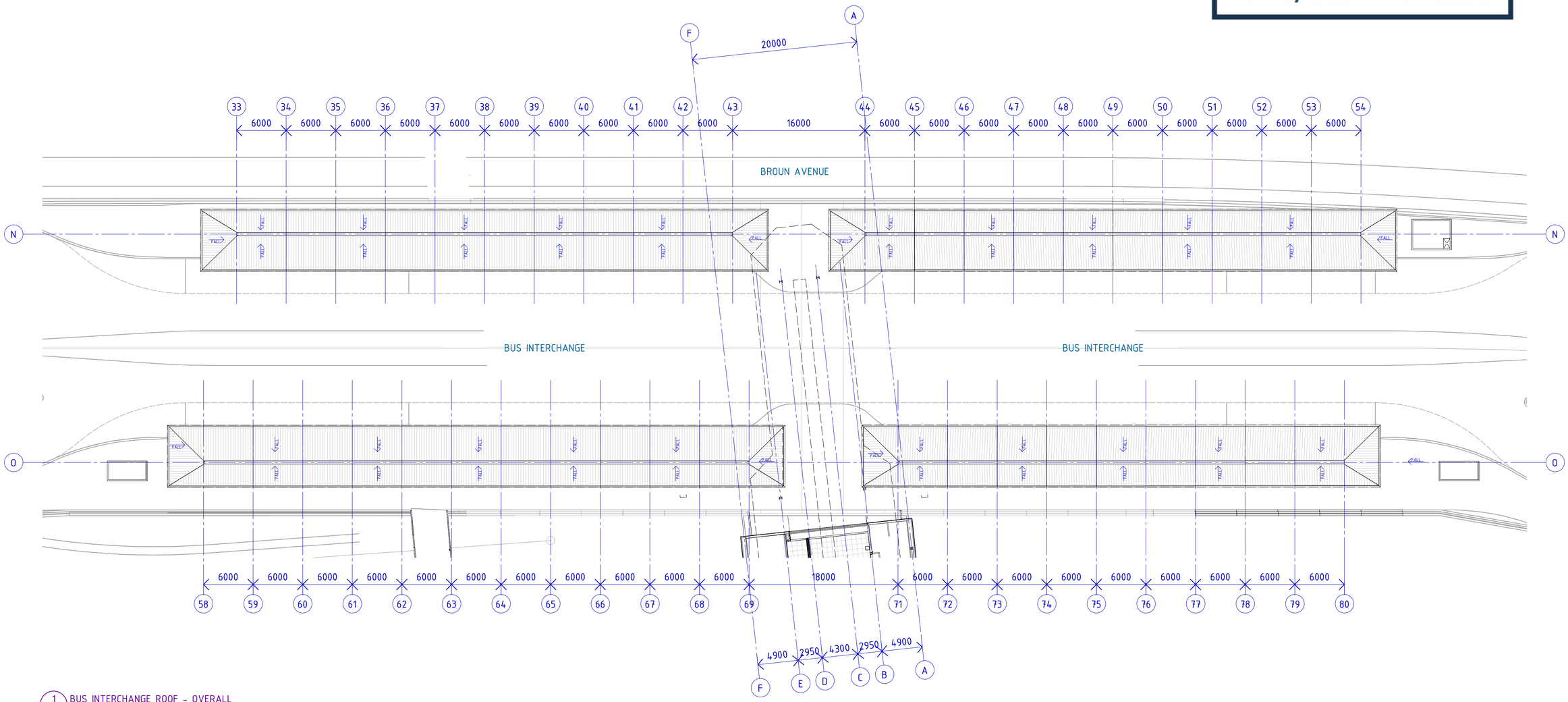
MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
STATION OVERALL PLAN
BUS INTERCHANGE PLAN

PTA Drawing No: 25-A-285-AR0018 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1



1 BUS INTERCHANGE ROOF - OVERALL

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

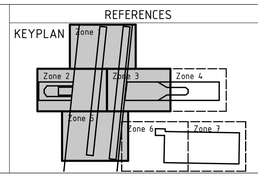
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

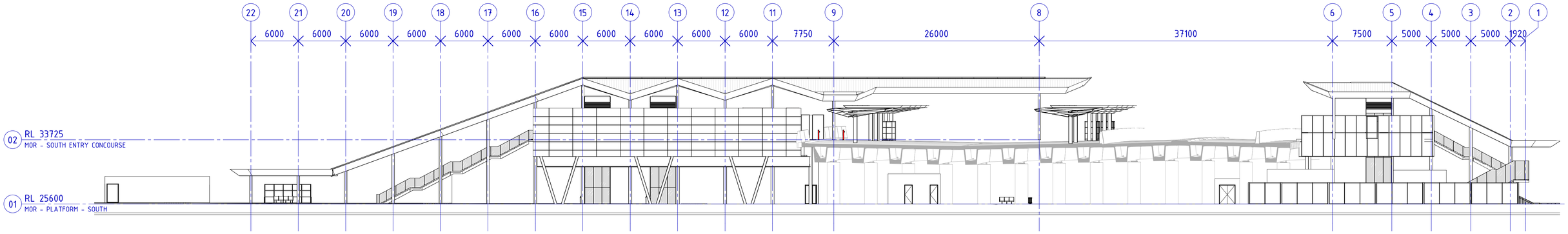
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

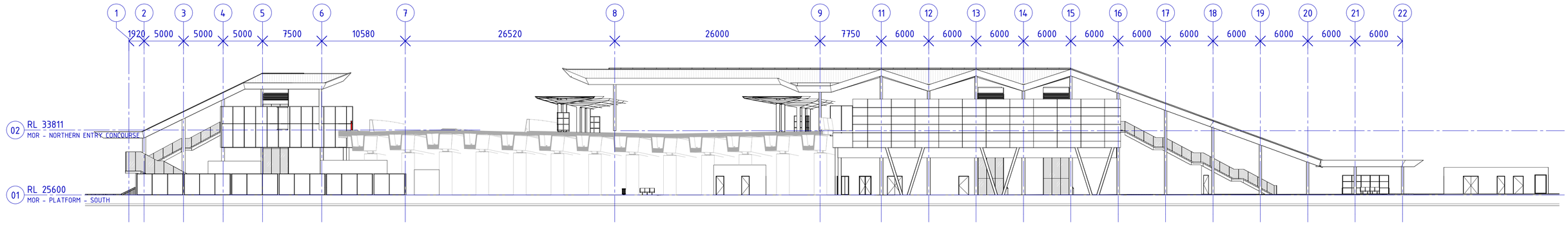
MORLEY STATION - ARCHITECTURE
BUS INTERCHANGE
BUS INTERCHANGE ROOF PLAN

PTA Drawing No: 25-A-285-AR0019 Rev: A

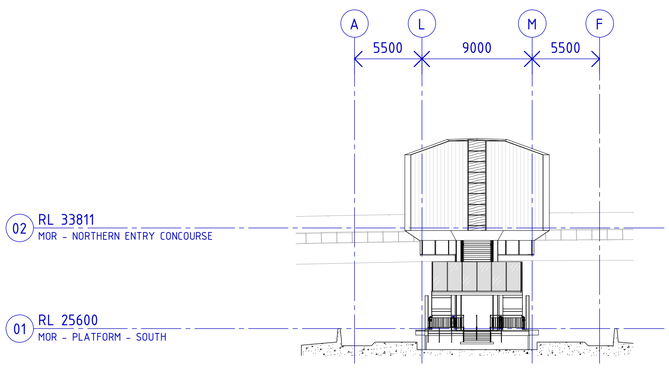
CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



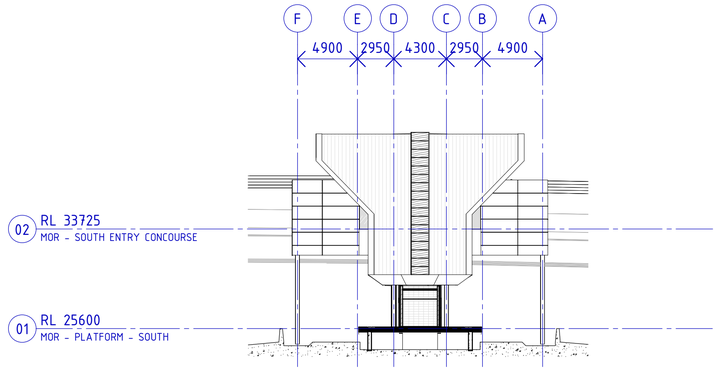
1 STATION EAST ELEVATION
SCALE 1 : 250



2 STATION WEST ELEVATION
SCALE 1 : 250



3 STATION NORTH ELEVATION
SCALE 1 : 250



4 STATION SOUTH ELEVATION
SCALE 1 : 250

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1
0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

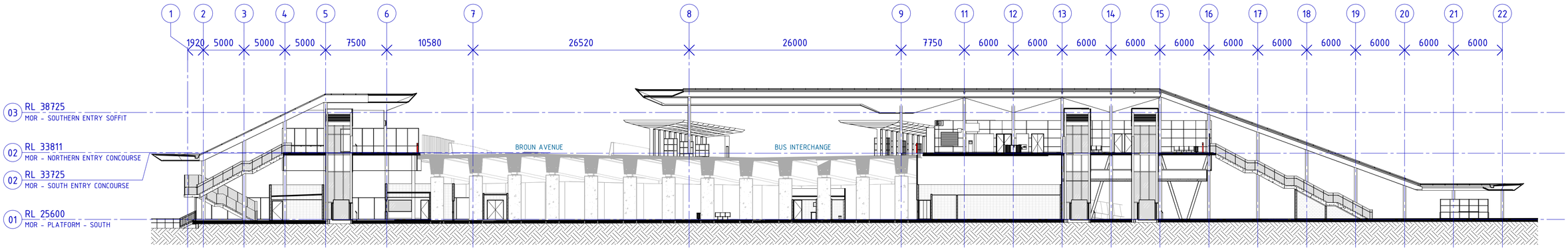
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

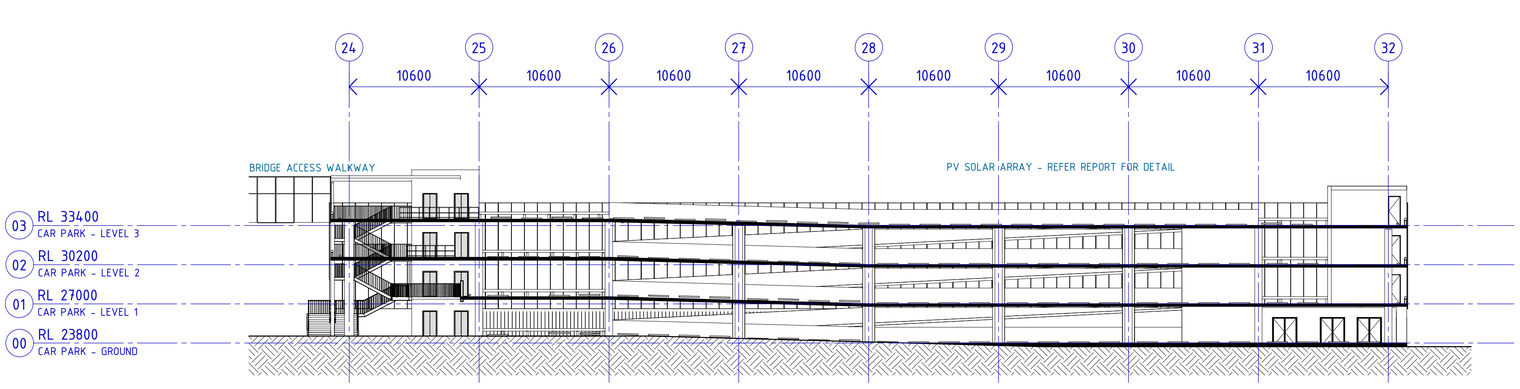
MORLEY STATION - ARCHITECTURE
OVERALL ELEVATIONS
STATION OVERALL ELEVATIONS

PTA Drawing No: 25-A-285-AR0024 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 STATION OVERALL SECTION
SCALE 1 : 250



2 MSCP - LONG SECTION
SCALE 1 : 250

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1
0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

Government of Western Australia Public Transport Authority

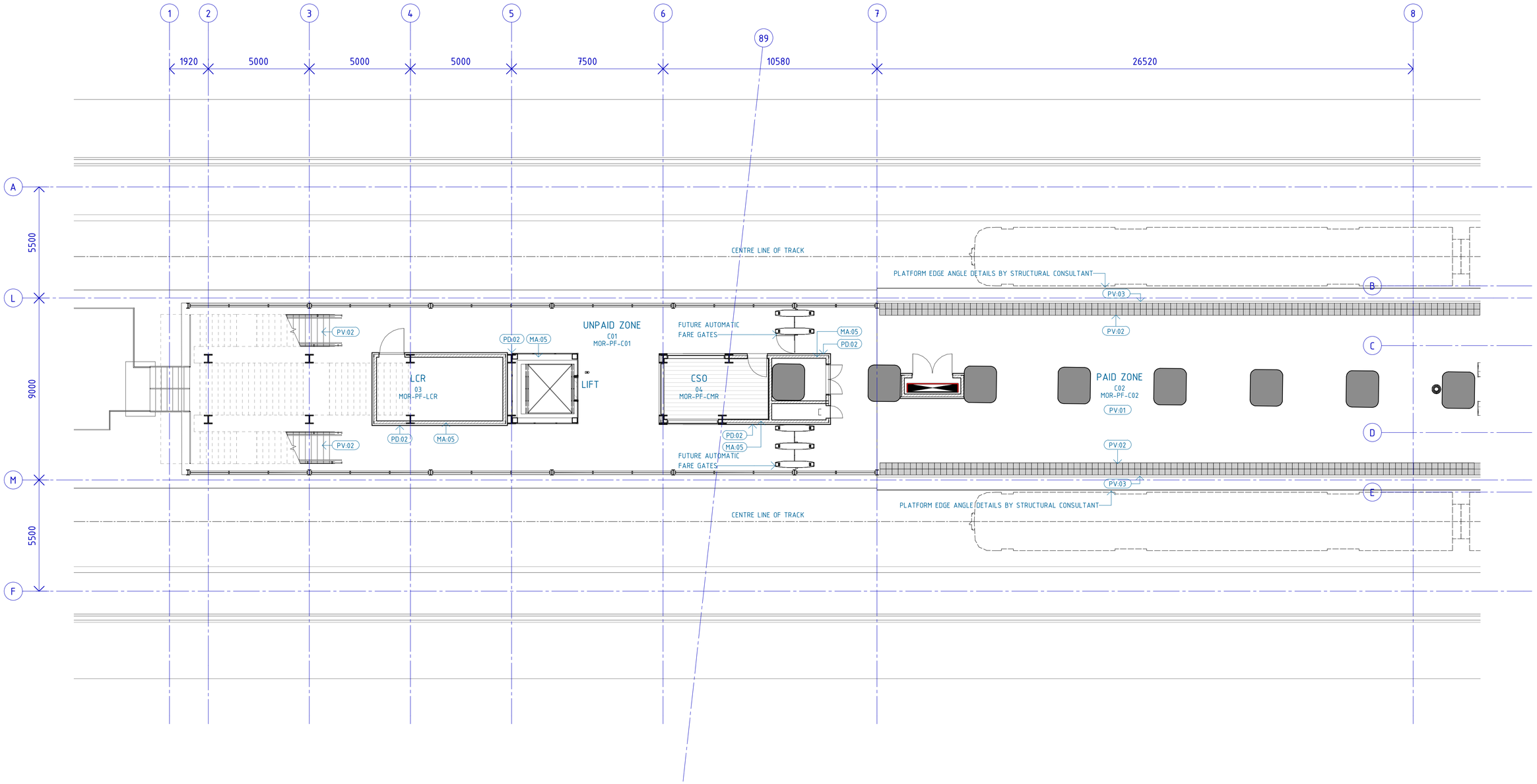
MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
OVERALL SECTIONS
STATION & MSCP OVERALL SECTIONS

PTA Drawing No: 25-A-285-AR0026 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

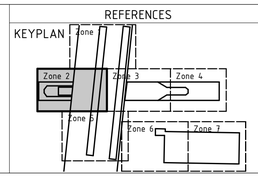
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE	1 : 100 (@ A1)
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71
DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

Government of Western Australia Public Transport Authority

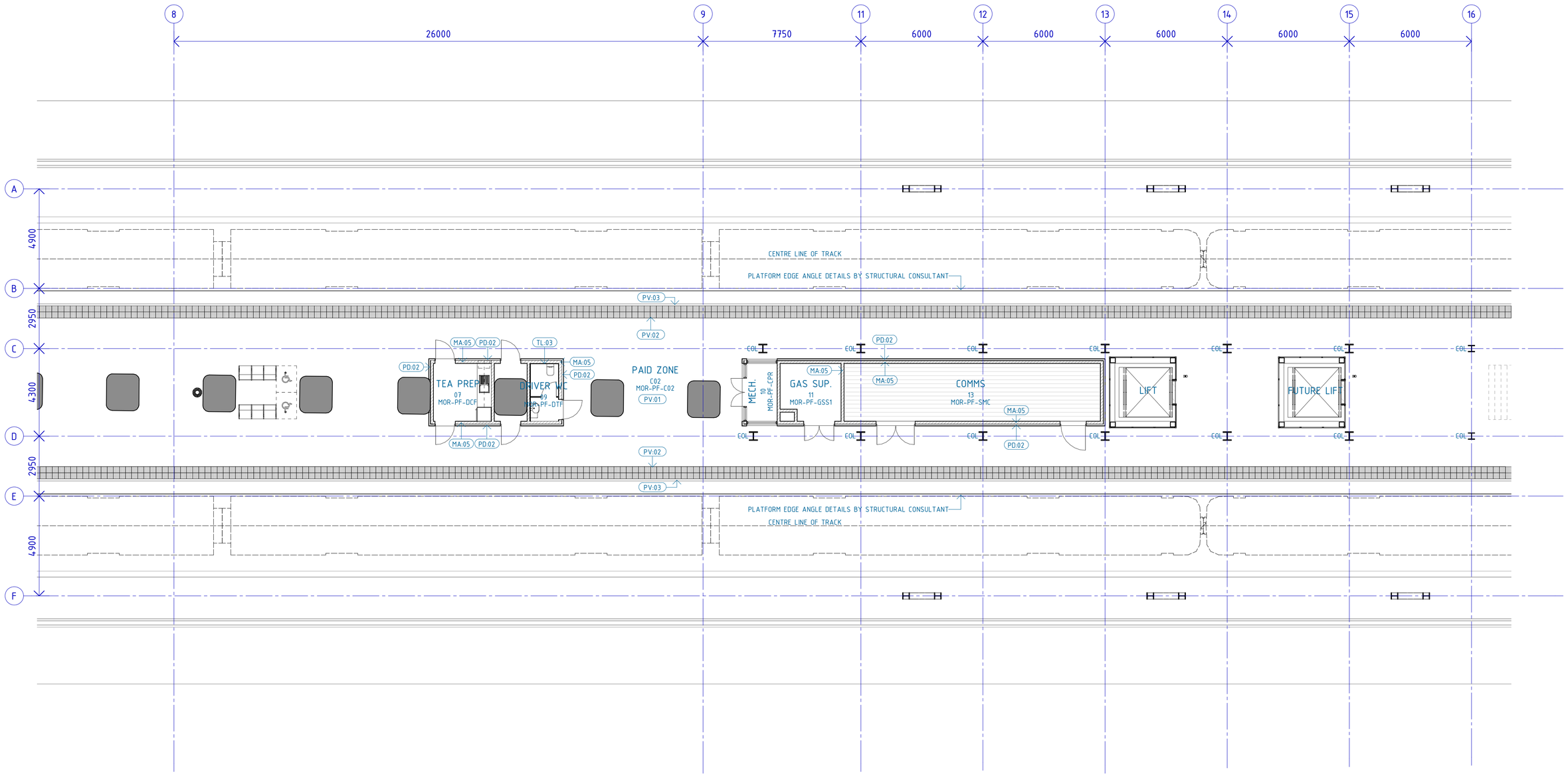
MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT FLOOR PLAN
PLATFORM LEVEL - SHEET 1

PTA Drawing No: 25-A-285-AR0040 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

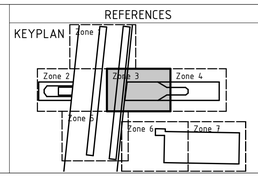
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

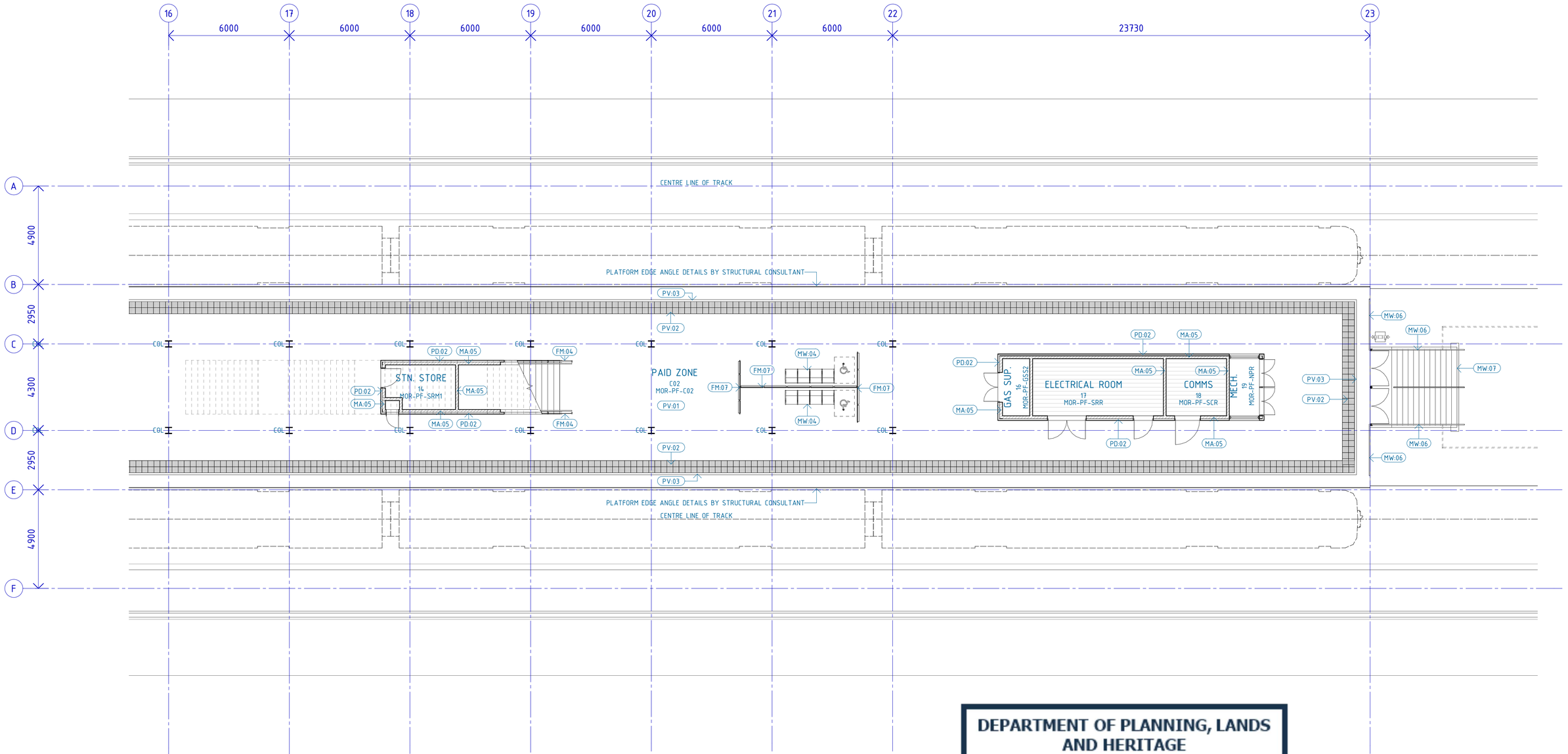
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT FLOOR PLAN
PLATFORM LEVEL - SHEET 2

PTA Drawing No: 25-A-285-AR0041 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

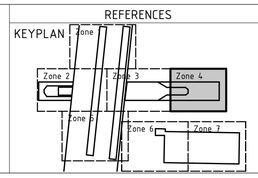
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT FLOOR PLAN
PLATFORM LEVEL - SHEET 3

PTA Drawing No: 25-A-285-AR0042 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

1 2 3 4 5 6 7 8

1920 5000 5000 5000 7500 10580 26520

A L M F

5500 9000 5500

4900 2950 4300 2950 4900

B C D E

LINE OF CANOPY SHOWN DASHED

UNPAID ZONE

MOR-CC-C03

TL.01

LIFT

ENTRY

BROUN AVENUE

LINE OF CANOPY SHOWN DASHED

2 0085 3 0085 2 0082 1 0083 1 0084 1 0080

PASSENGER SERVICE PANEL

PRELIMINARY ONLY

NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

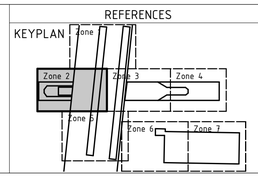
0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM

HORIZONTAL: PCG2020

VERTICAL: AHD71

DESIGNED J. MANGAN

DRAWN B. TRISCARI

CHECKED D. O'BRIEN

APPROVED Approver

DATE 25.02.22

Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE

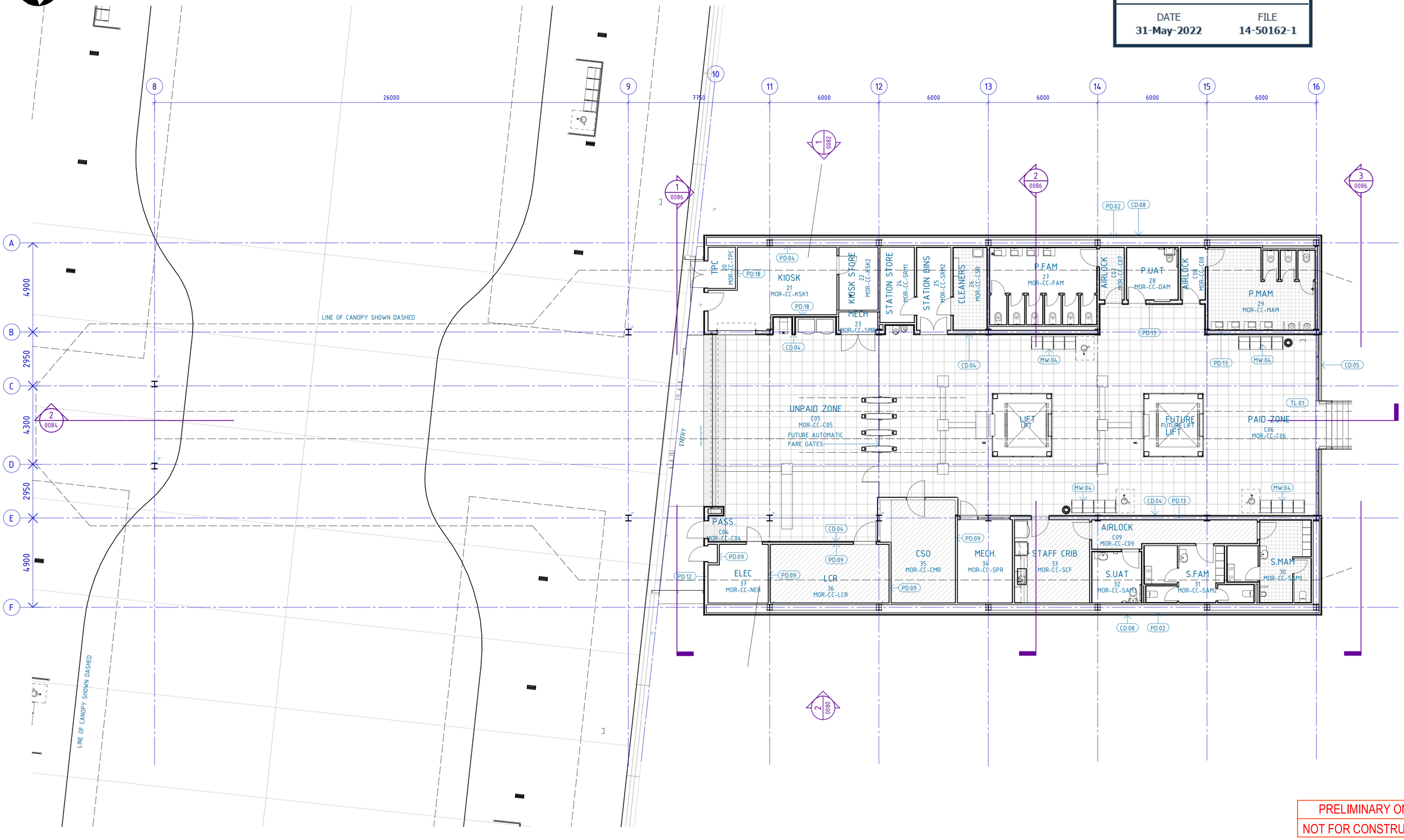
GENERAL ARRANGEMENT FLOOR PLAN

CONCOURSE LEVEL - SHEET 1

PTA Drawing No: 25-A-285-AR0043 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE	
DATE	FILE
31-May-2022	14-50162-1



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

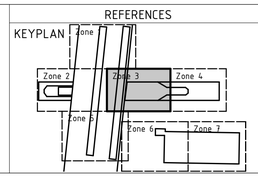
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

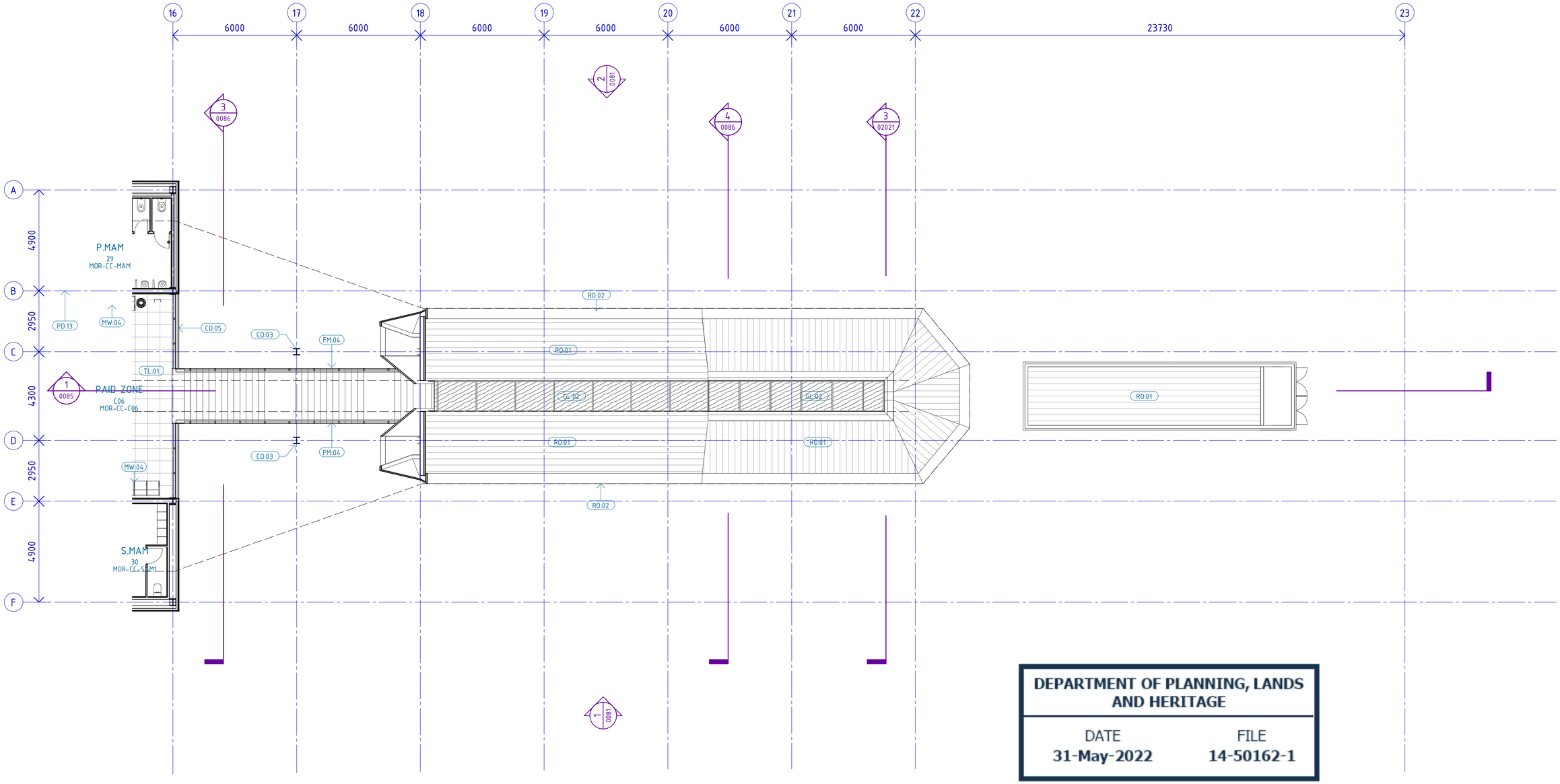
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT FLOOR PLAN
CONCOURSE LEVEL - SHEET 2

PTA Drawing No: 25-A-285-AR0044 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

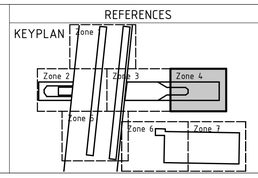
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1 — 0 10 20 30 40 50 100mm — AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

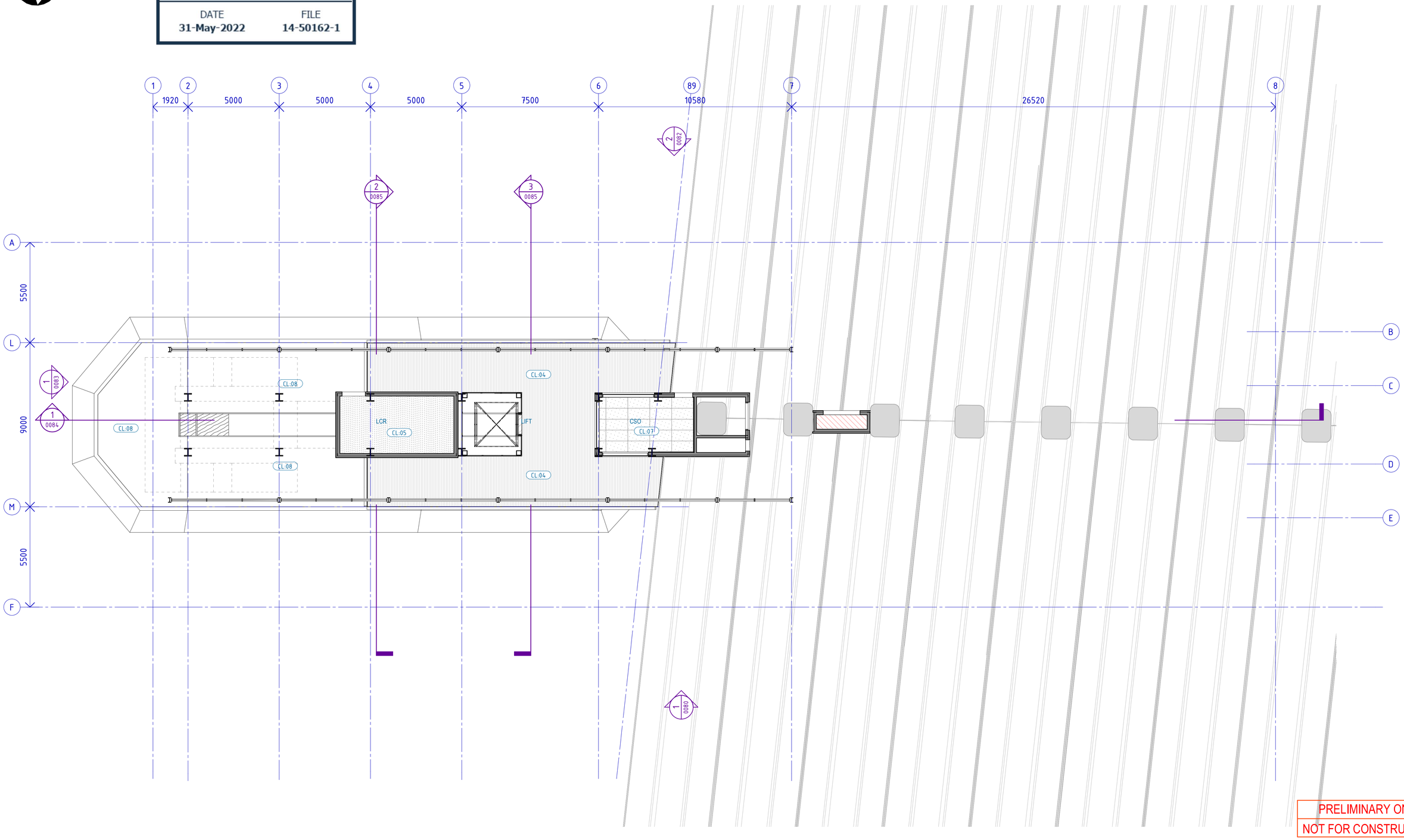
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT FLOOR PLAN
CONCOURSE LEVEL - SHEET 3

PTA Drawing No: 25-A-285-AR0045 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	JM DSN	BT DRN	DOB CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW				

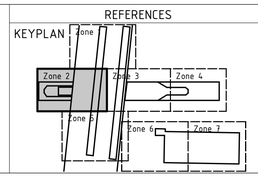
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

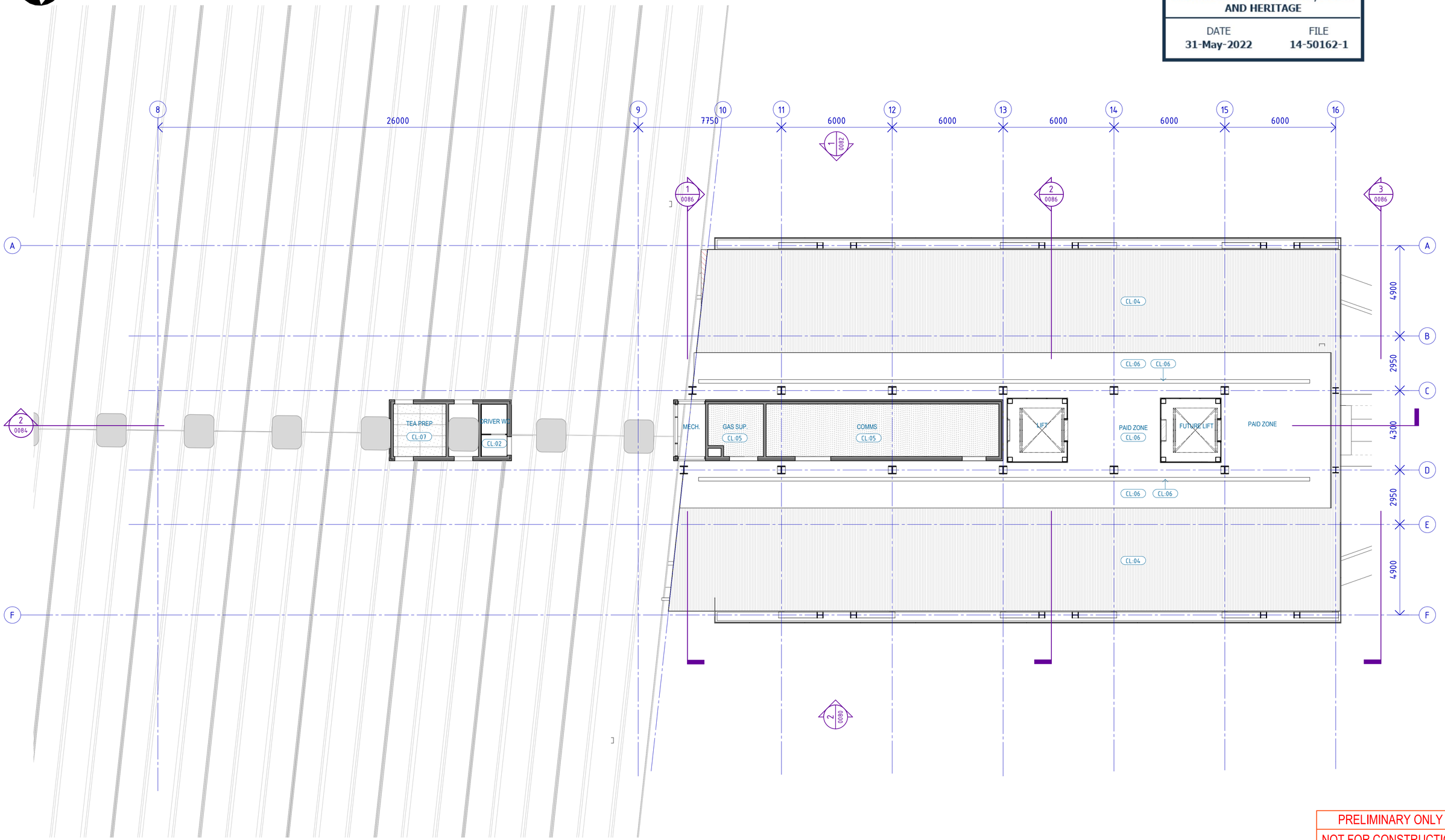
MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
PLATFORM LEVEL - SHEET 1

PTA Drawing No: 25-A-285-AR0070 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt

DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

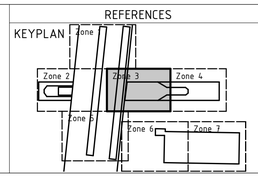
0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

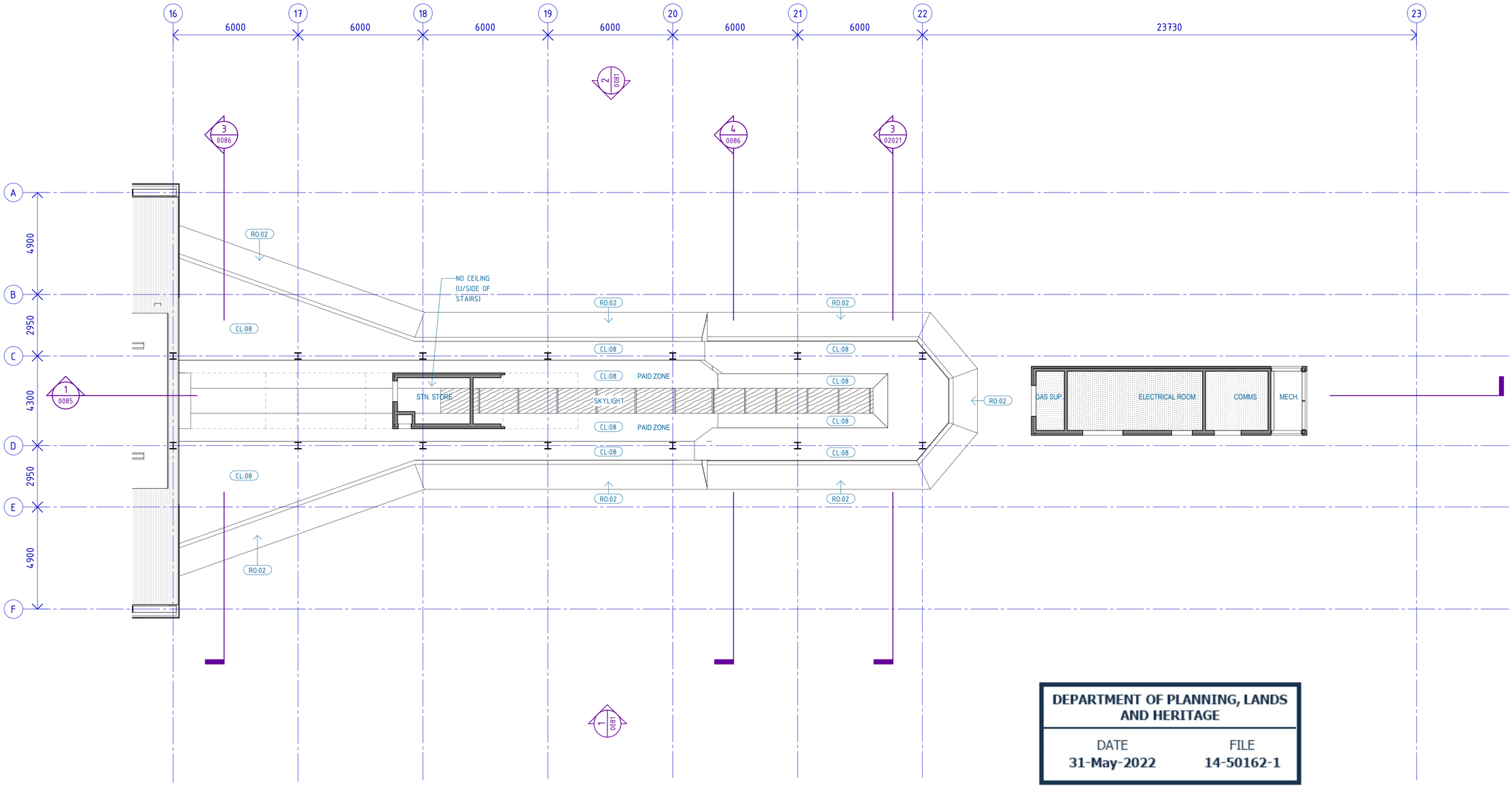
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
PLATFORM LEVEL - SHEET 2

PTA Drawing No: 25-A-285-AR0071 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



DEPARTMENT OF PLANNING, LANDS AND HERITAGE

DATE	FILE
31-May-2022	14-50162-1

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

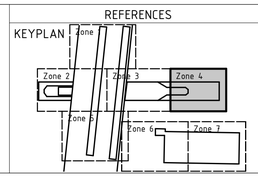
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

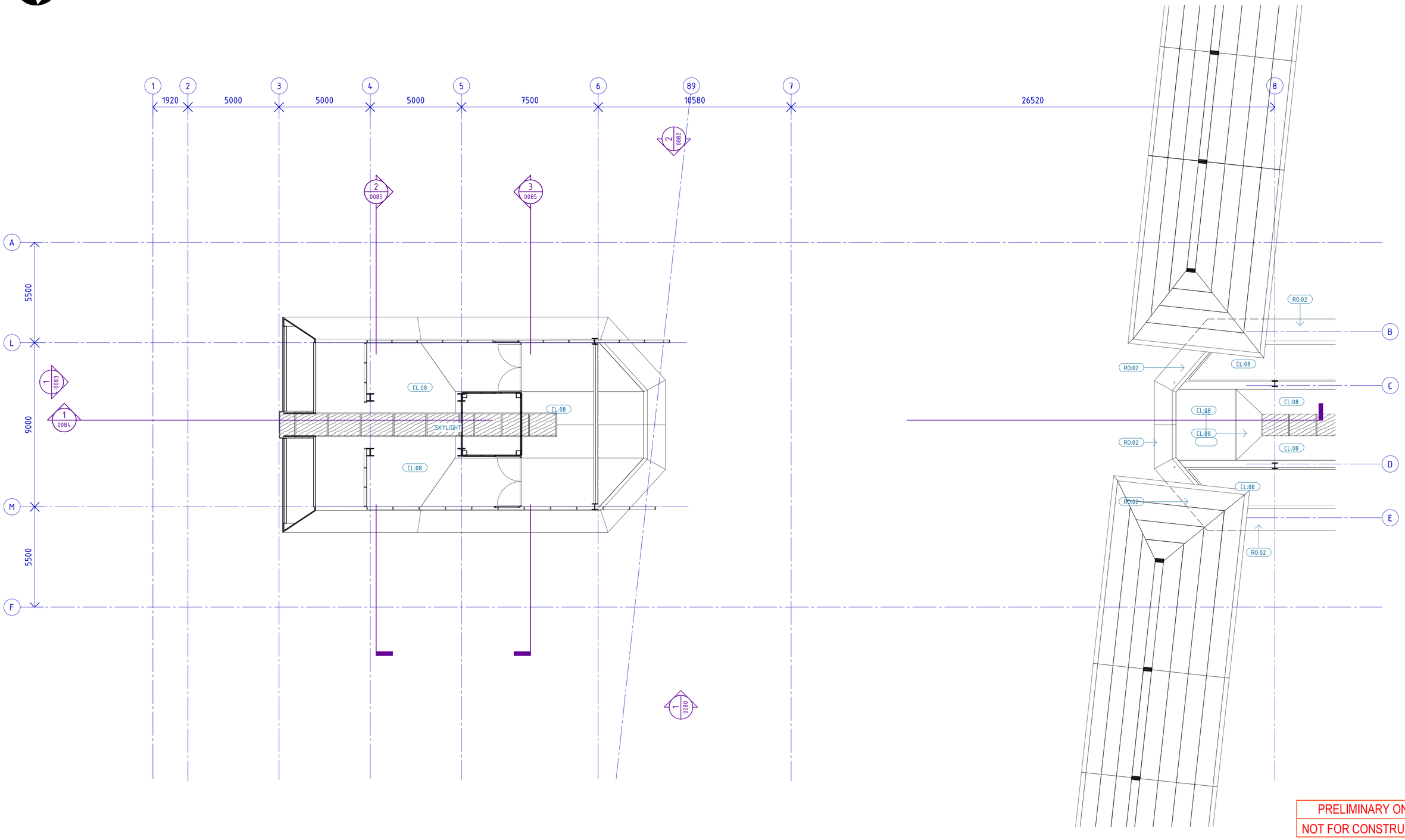
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
PLATFORM LEVEL - SHEET 3

PTA Drawing No: 25-A-285-AR0072 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

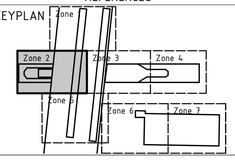
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

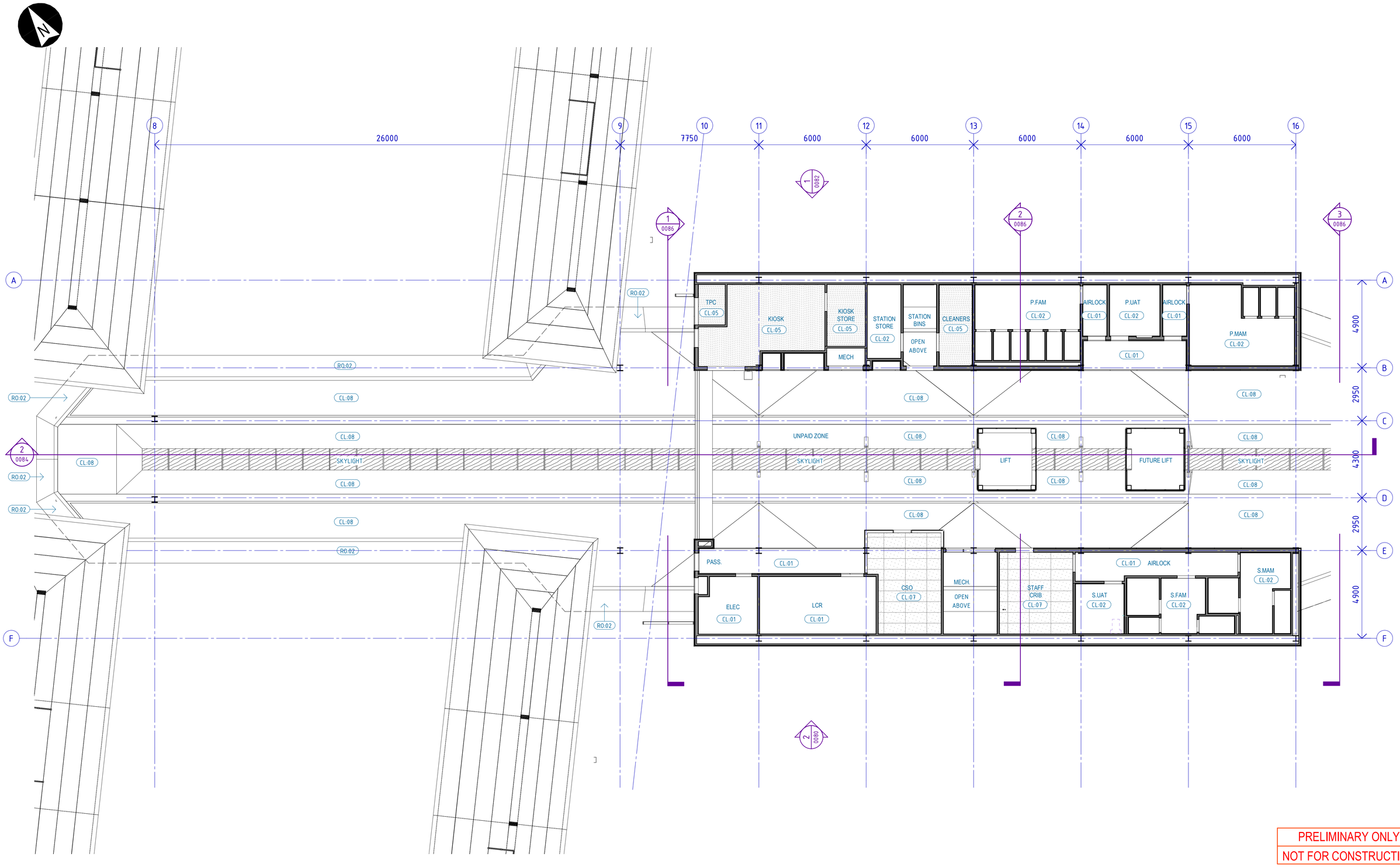
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
CONCOURSE LEVEL - SHEET 1

PTA Drawing No: 25-A-285-AR0073 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

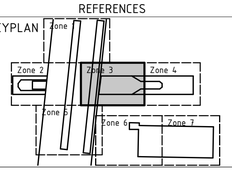
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

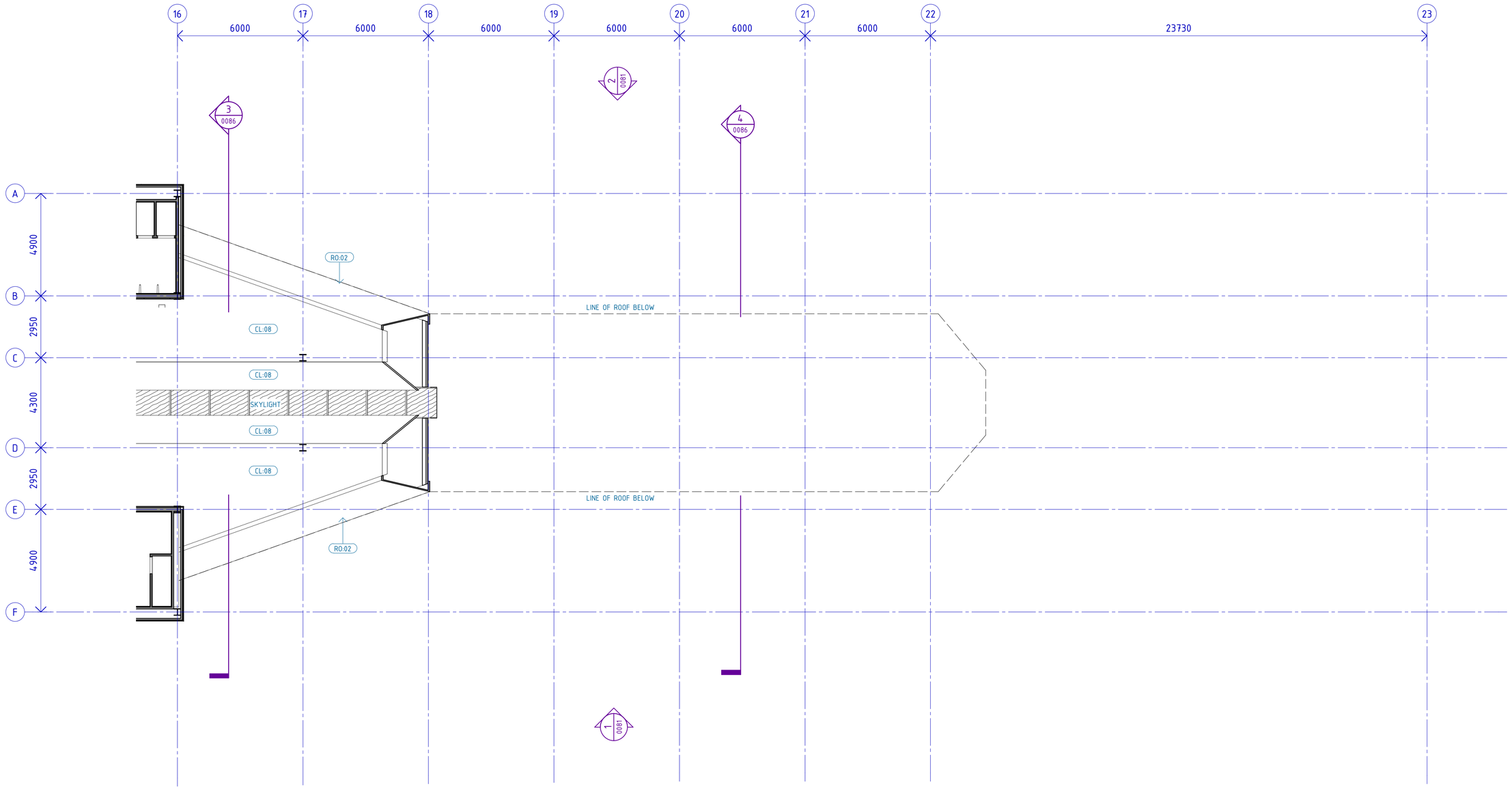
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
CONCOURSE LEVEL - SHEET 2

PTA Drawing No: 25-A-285-AR0074 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

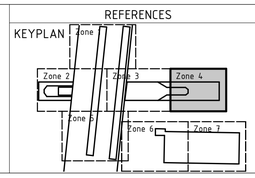
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

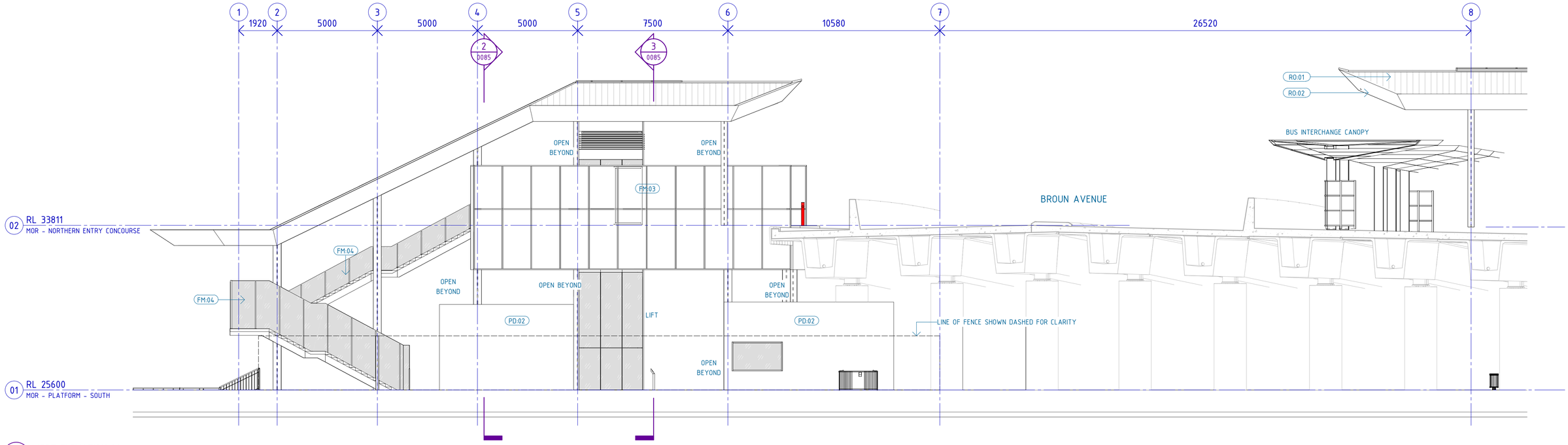
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

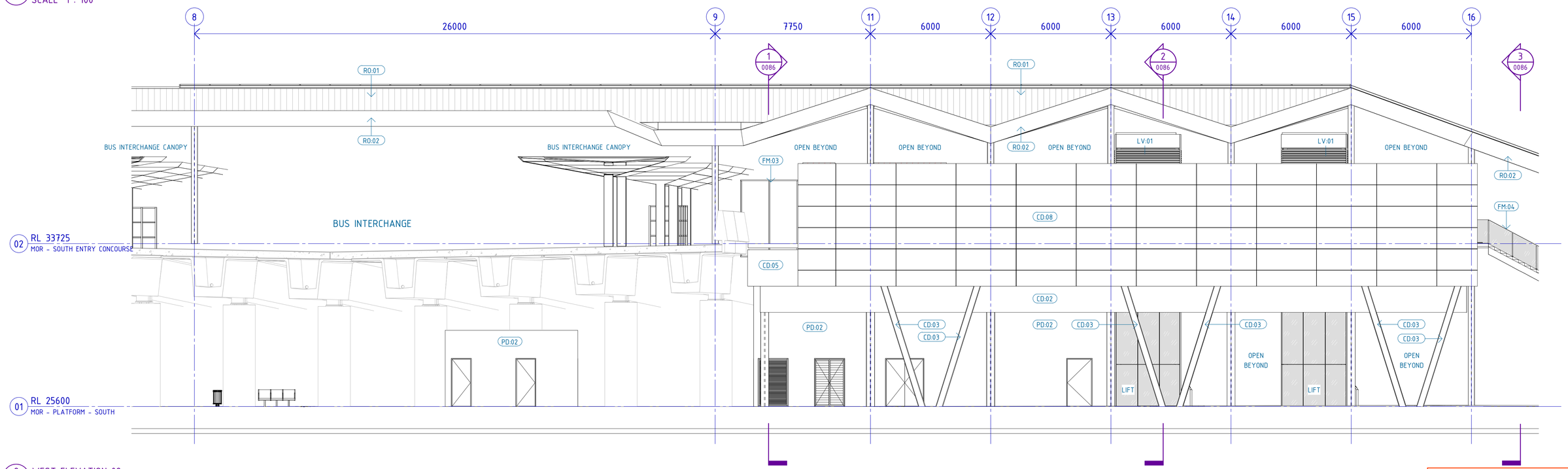
MORLEY STATION - ARCHITECTURE
REFLECTED CEILING PLAN
CONCOURSE LEVEL - SHEET 3

PTA Drawing No: 25-A-285-AR0075 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 WEST ELEVATION 01
SCALE 1 : 100



2 WEST ELEVATION 02
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

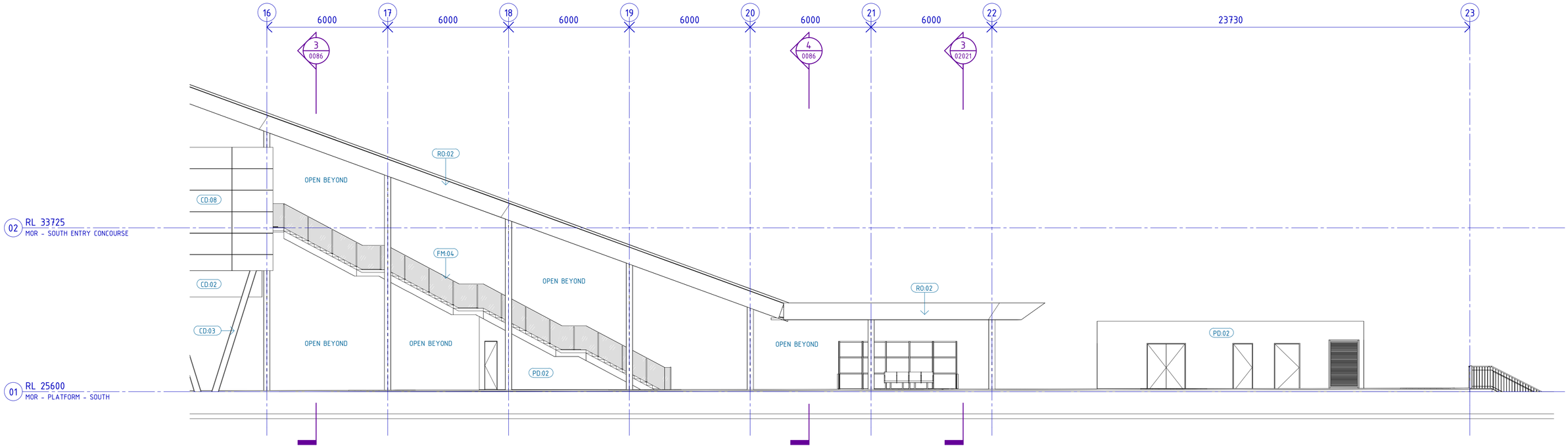
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

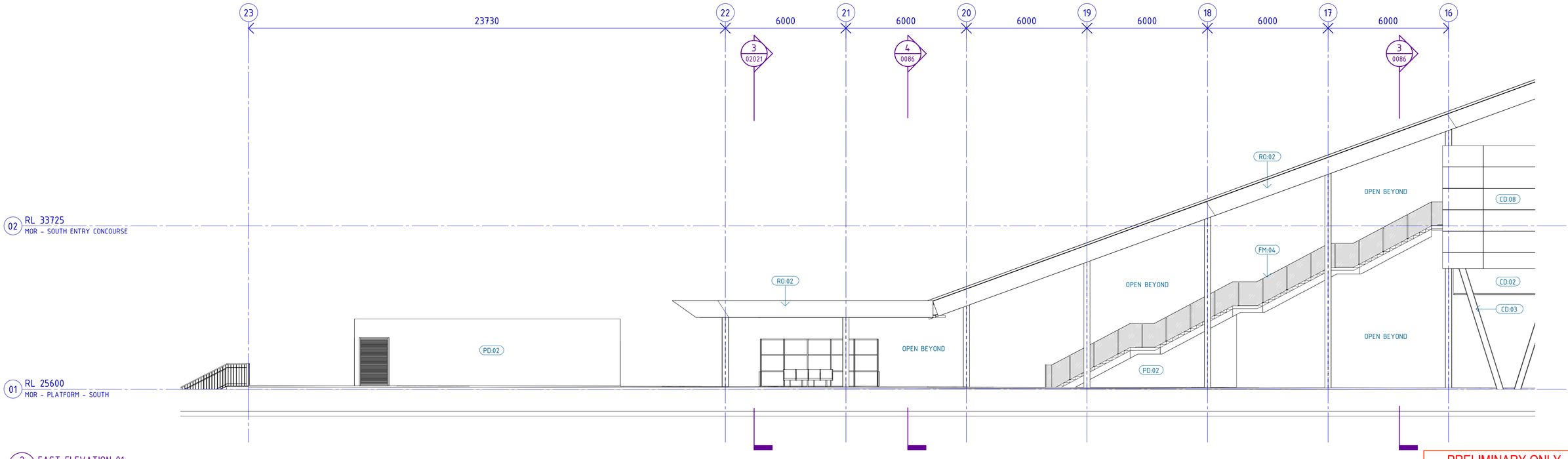
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
LONG ELEVATION - SHEET 1

PTA Drawing No: 25-A-285-AR0080 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 WEST ELEVATION 03
SCALE 1 : 100



2 EAST ELEVATION 01
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

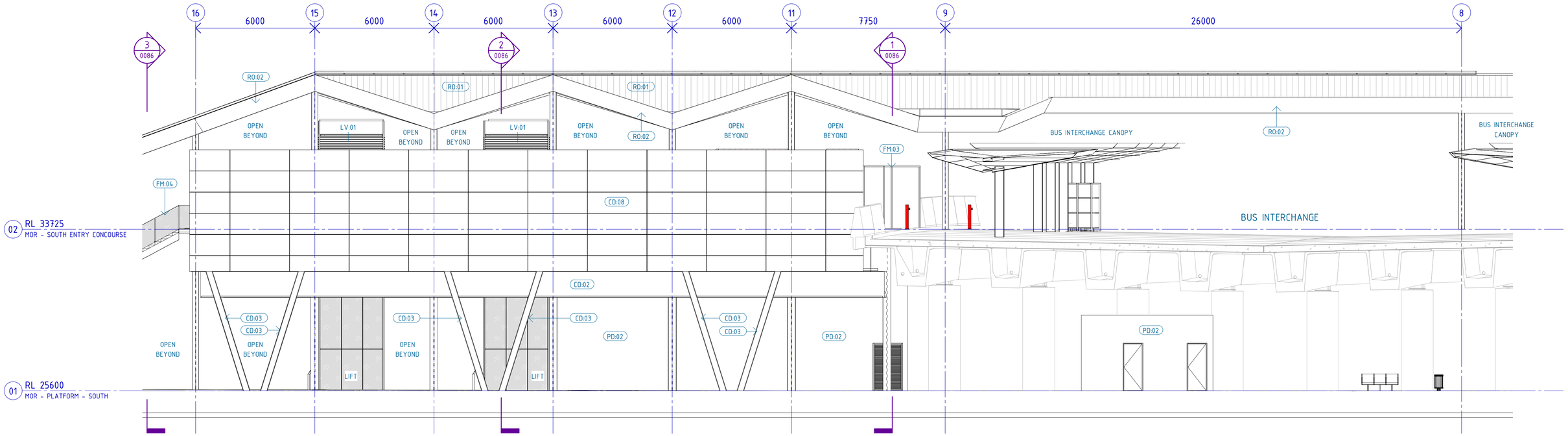
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

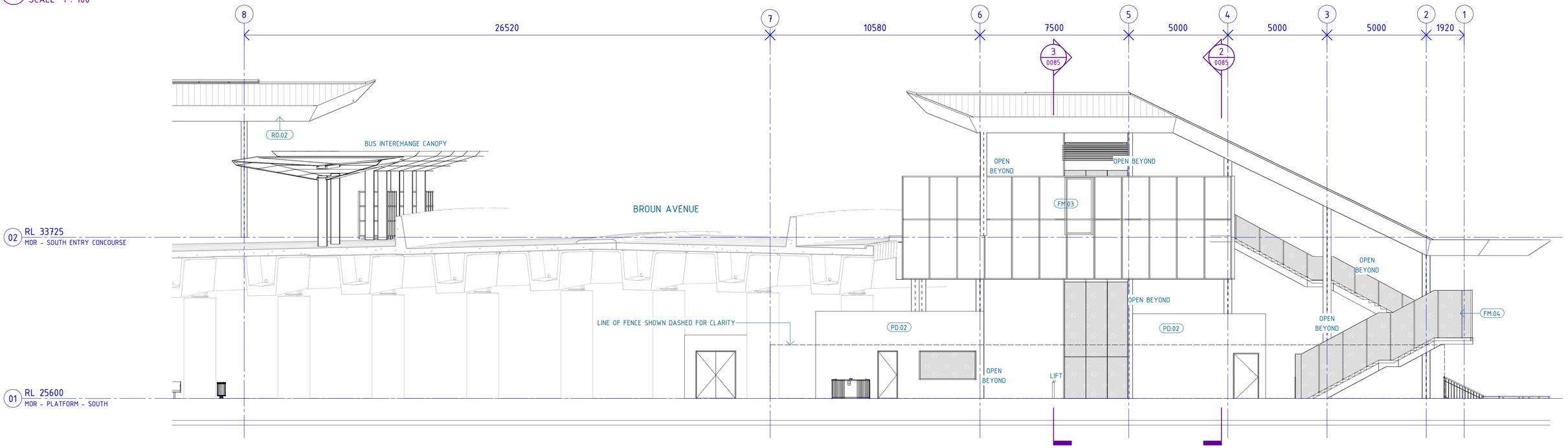
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
LONG ELEVATION - SHEET 2

PTA Drawing No: 25-A-285-AR0081 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 EAST ELEVATION 02
SCALE 1 : 100



2 EAST ELEVATION 03
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

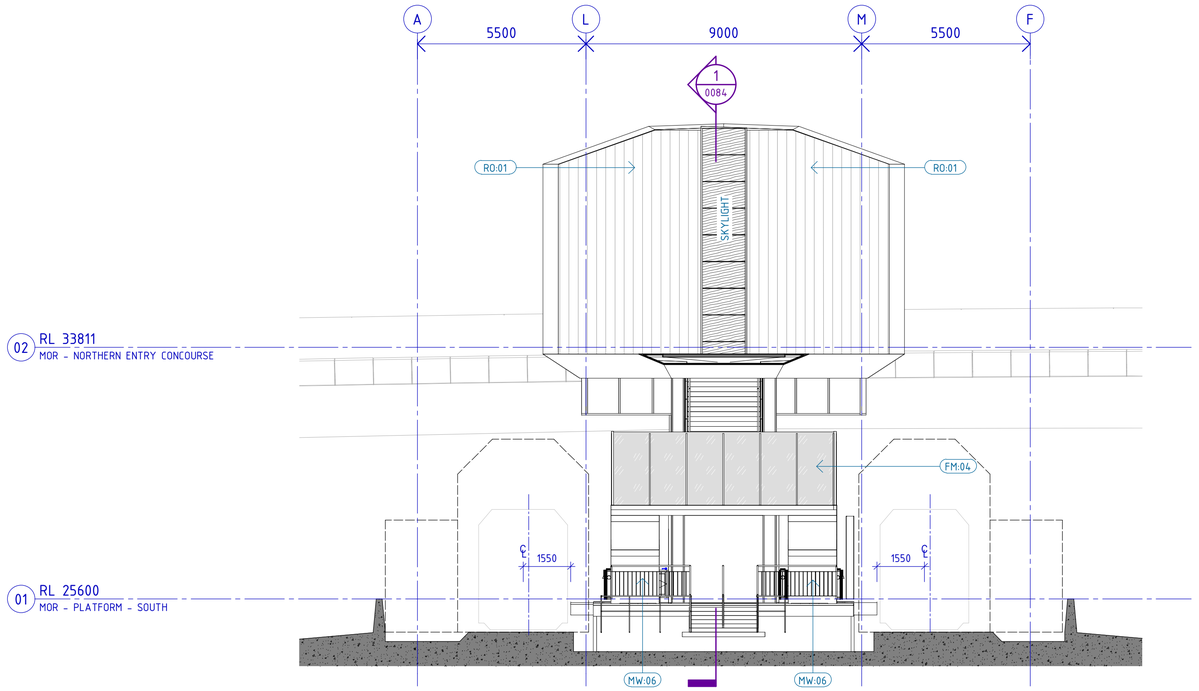
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

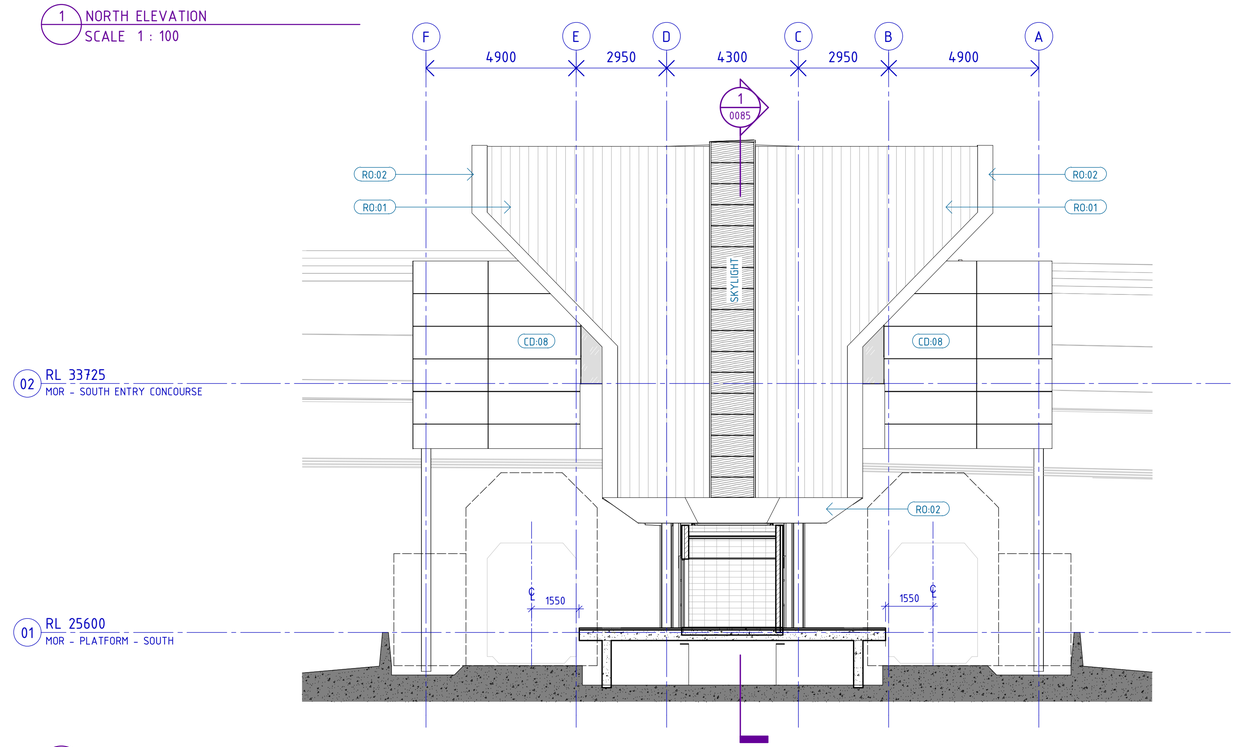
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
LONG ELEVATION - SHEET 3

PTA Drawing No: 25-A-285-AR0082 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 NORTH ELEVATION
SCALE 1 : 100



2 SOUTH ELEVATION
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

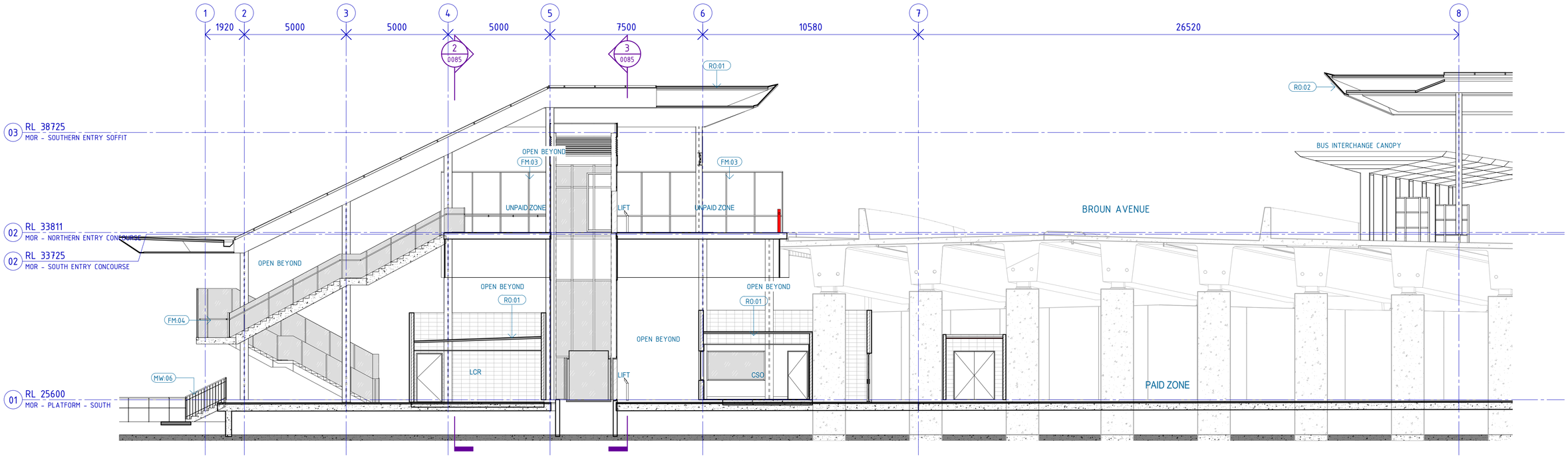
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

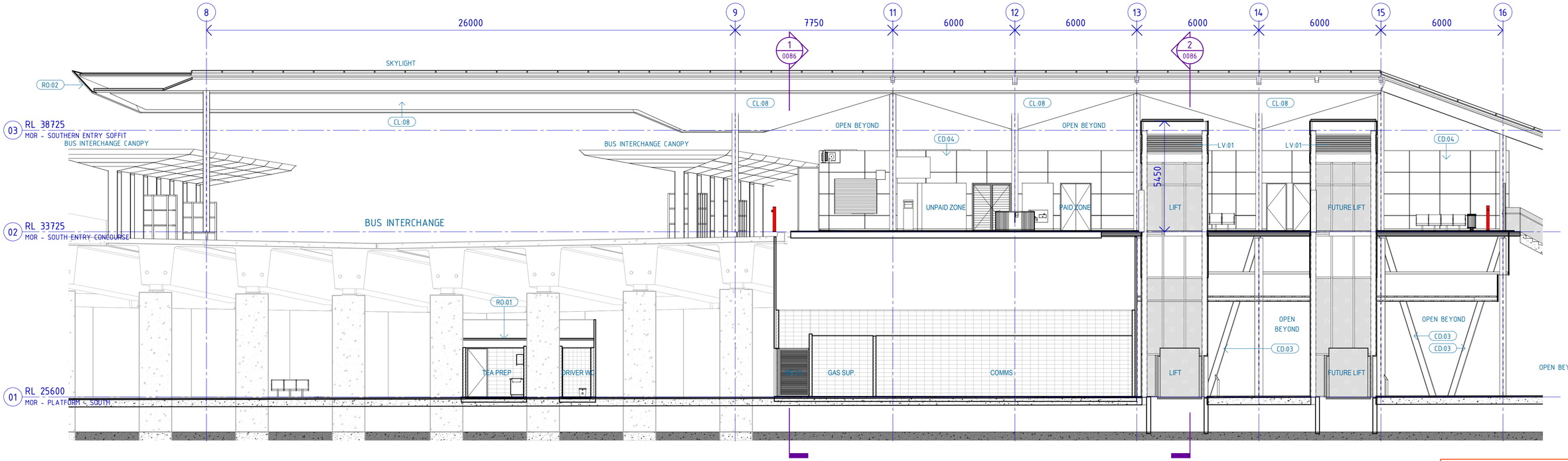
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
SHORT ELEVATION

PTA Drawing No: 25-A-285-AR0083 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 LONG SECTION - ZONE 2
SCALE 1 : 100



2 LONG SECTION - ZONE 3
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1 — 0 10 20 30 40 50 100mm AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED	J. MANGAN
DRAWN	B. TRISCARI
CHECKED	D. O'BRIEN
APPROVED	Approver
DATE	25.02.22

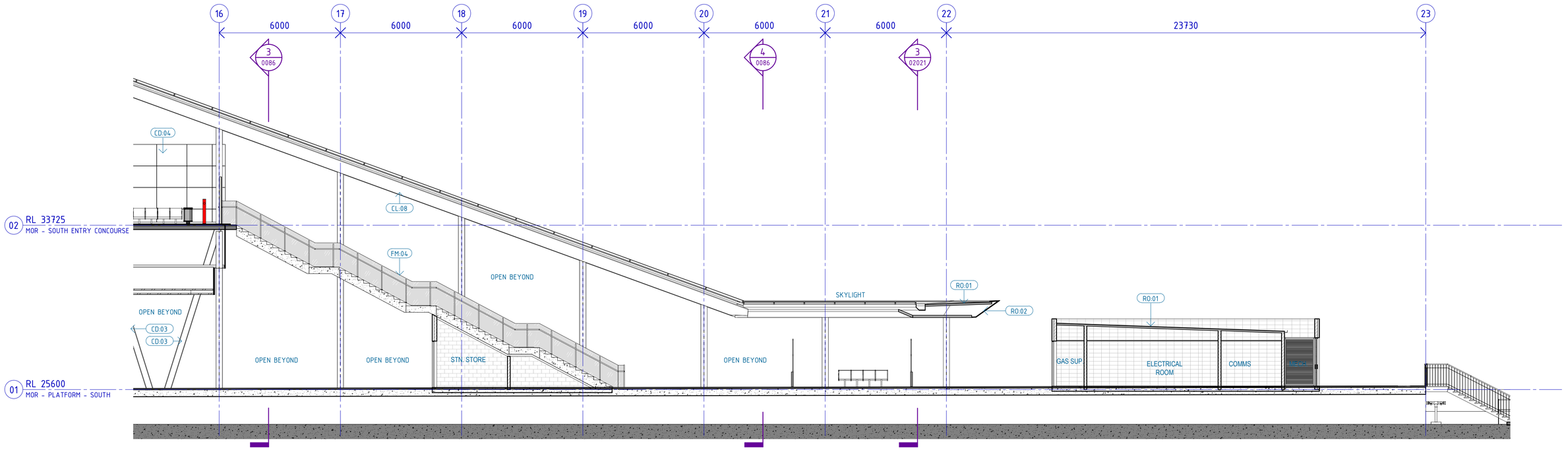
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

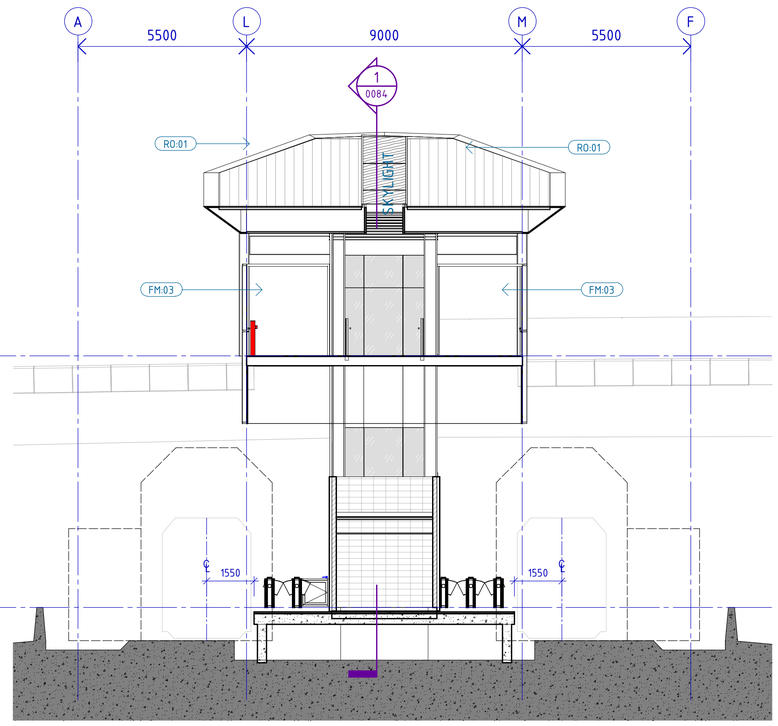
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
SECTION - SHEET 1

PTA Drawing No: 25-A-285-AR0084 Rev: A

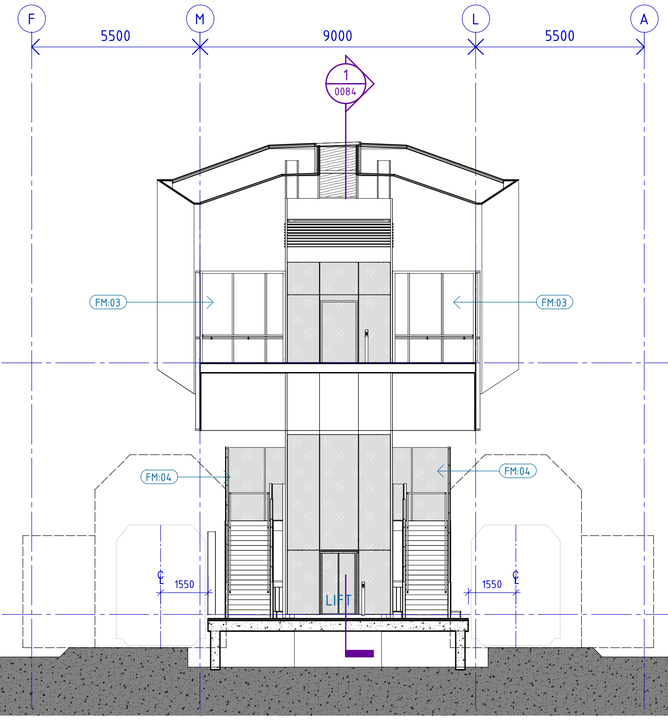
CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 LONG SECTION - ZONE 4
SCALE 1 : 100



2 SECTION - GRID 4
SCALE 1 : 100



3 SECTION - GRID 5
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

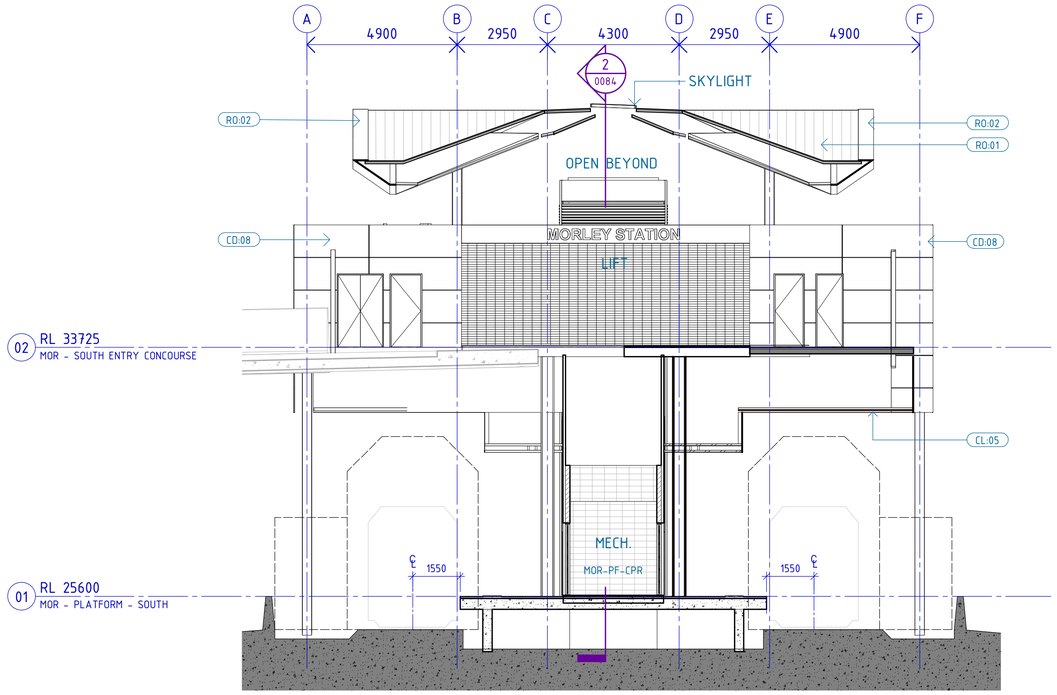
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

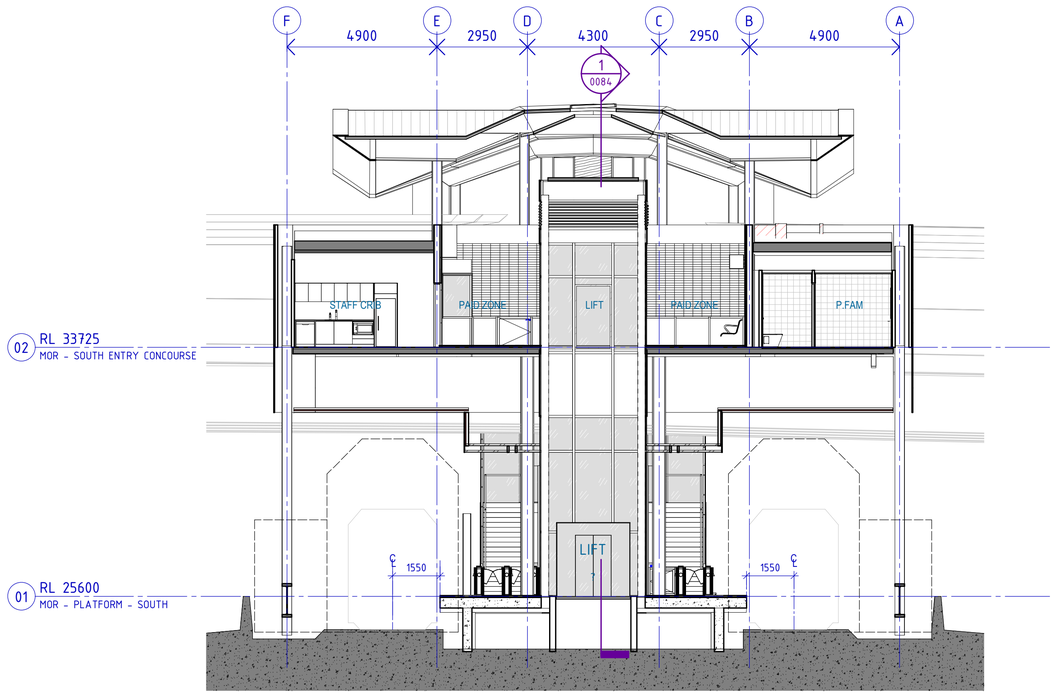
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
SECTION - SHEET 2

PTA Drawing No: 25-A-285-AR0085 Rev: A

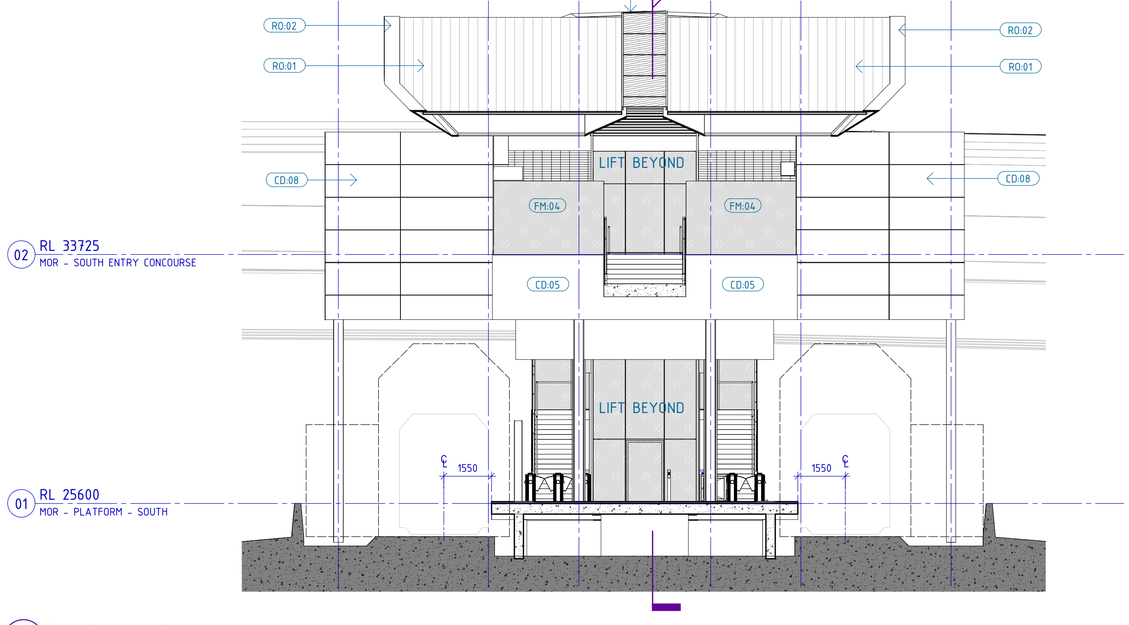
CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



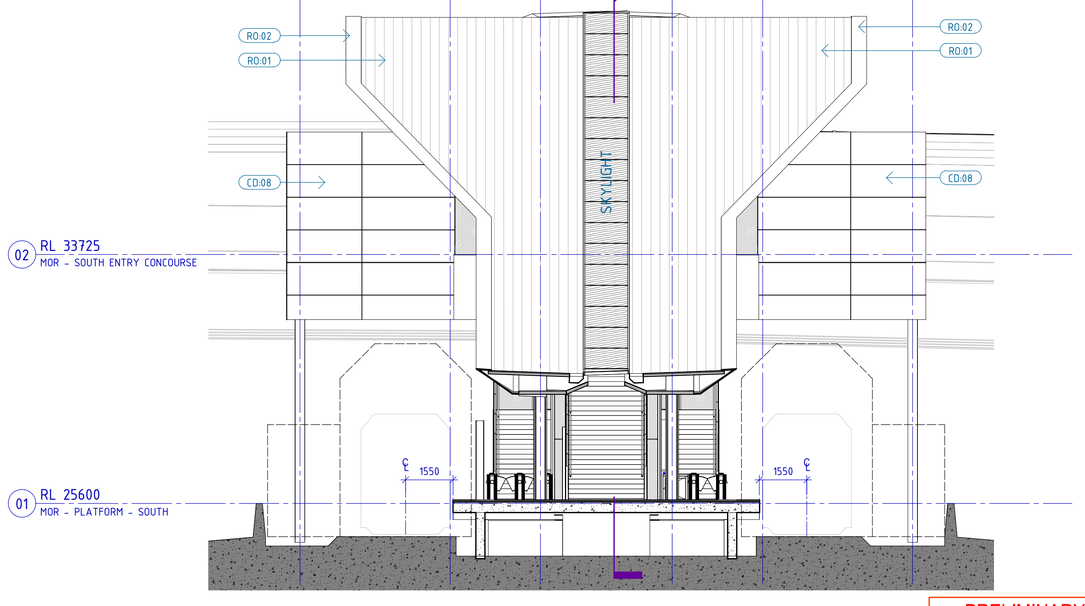
1 SECTION - GRID 10
SCALE 1 : 100



2 SECTION - GRID 13
SCALE 1 : 100



3 SECTION - GRID 16
SCALE 1 : 100



4 SECTION - GRID 20
SCALE 1 : 100

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 100 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

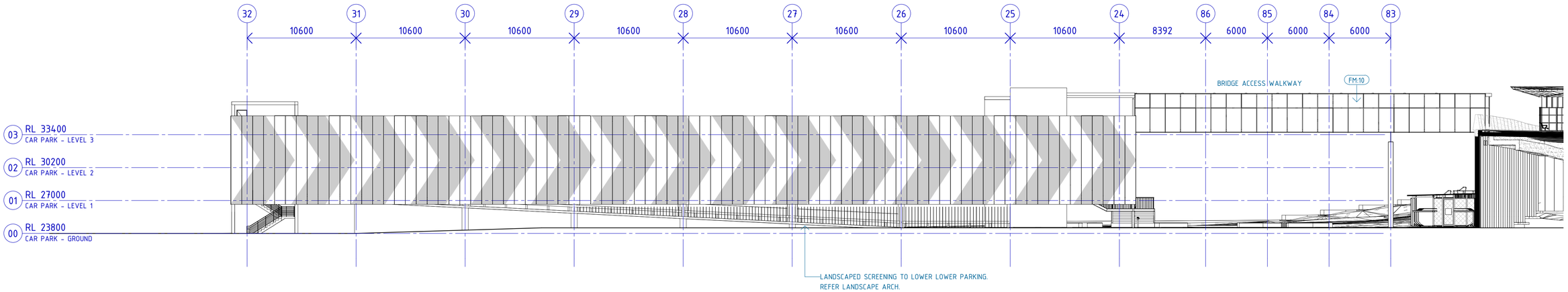
Government of Western Australia
Public Transport Authority

MORLEY ELLENBROOK LINE

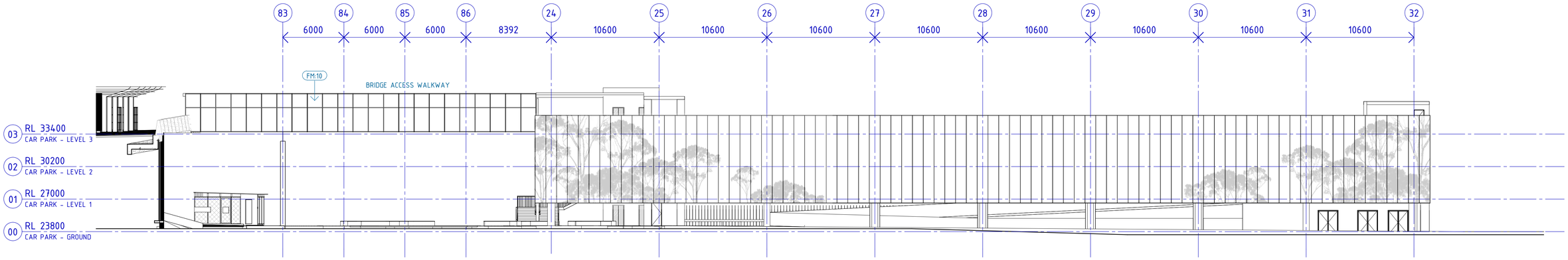
MORLEY STATION - ARCHITECTURE
GENERAL ARRANGEMENT
SECTION - SHEET 3

PTA Drawing No: 25-A-285-AR0086 Rev: A

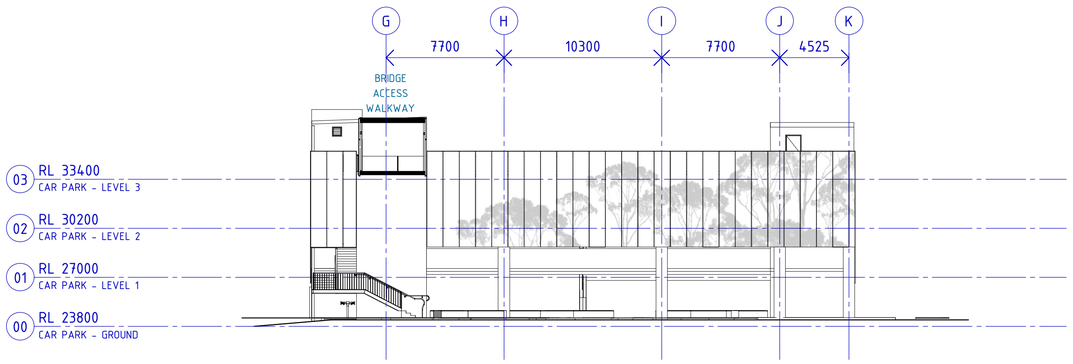
CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



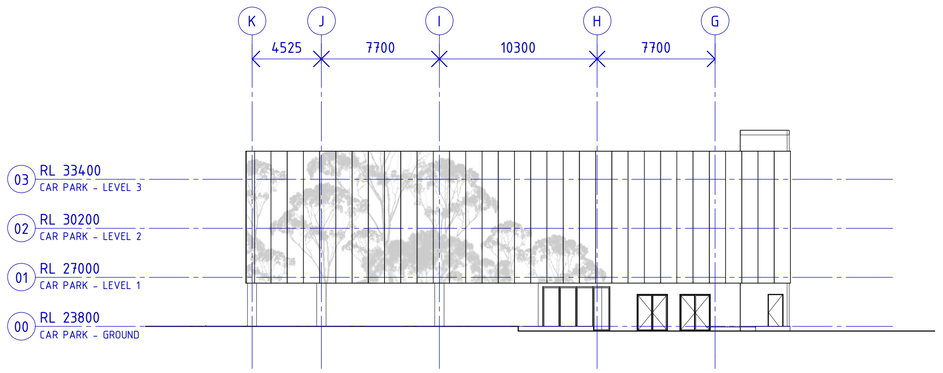
1 MSCP - EAST ELEVATION
SCALE 1 : 200



2 MSCP - WEST ELEVATION
SCALE 1 : 200



3 MSCP - NORTH ELEVATION
SCALE 1 : 200



4 MSCP - SOUTH ELEVATION
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

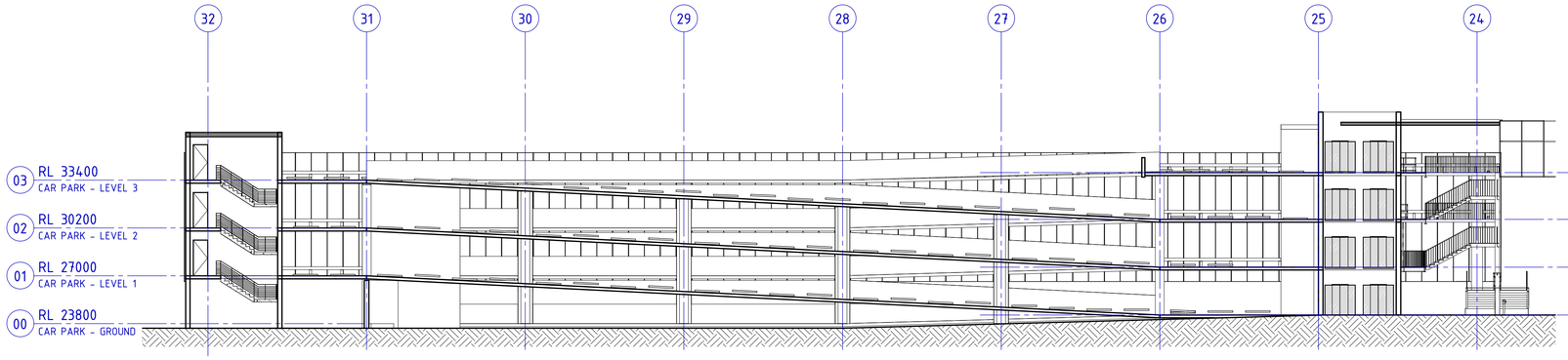
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

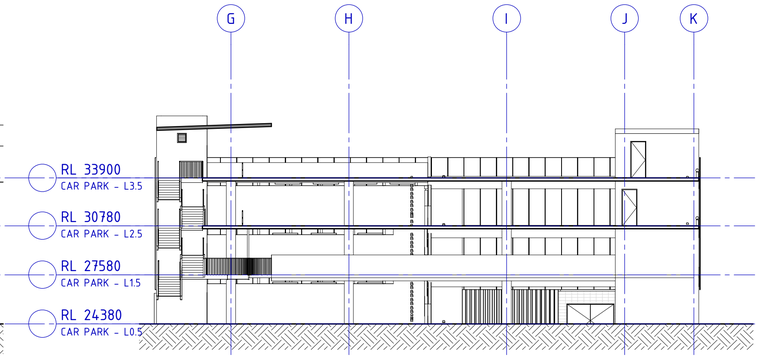
MORLEY STATION - ARCHITECTURE
OVERALL ELEVATIONS
MSCP ELEVATIONS

PTA Drawing No: 25-A-285-AR0087 Rev: A

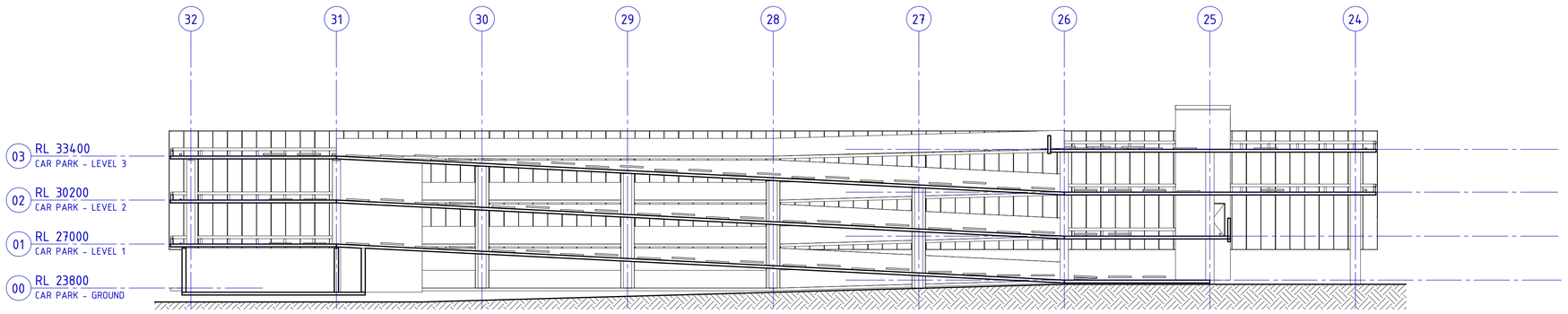
CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



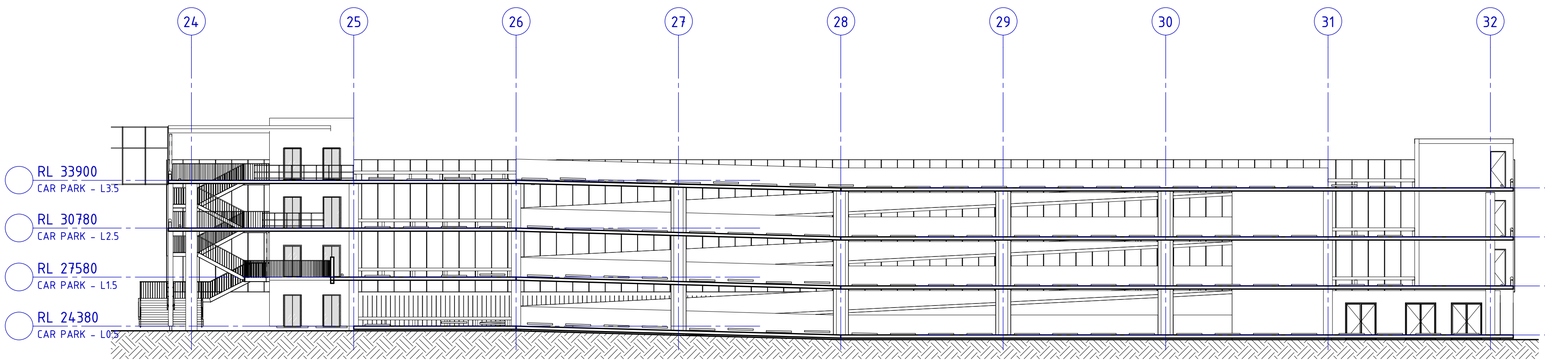
1 CAR PARK - LONG SECTION
SCALE 1 : 200



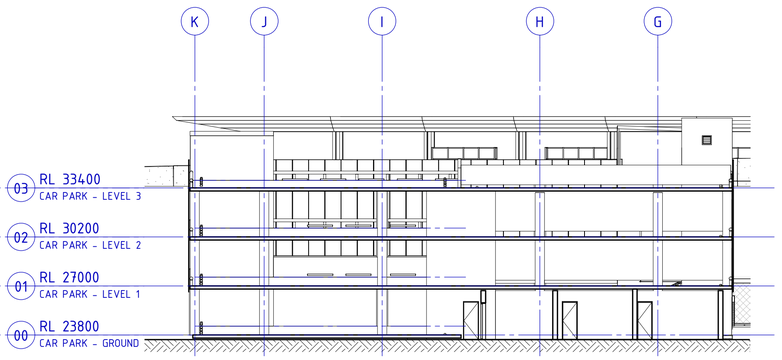
4 MSCP SECTION GRID 25
SCALE 1 : 200



2 CAR PARK - LONG SECTION
SCALE 1 : 200



3 CAR PARK - LONG SECTION
SCALE 1 : 200



5 MSCP SECTION GRID 31
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

ORIG SIZE A1
0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

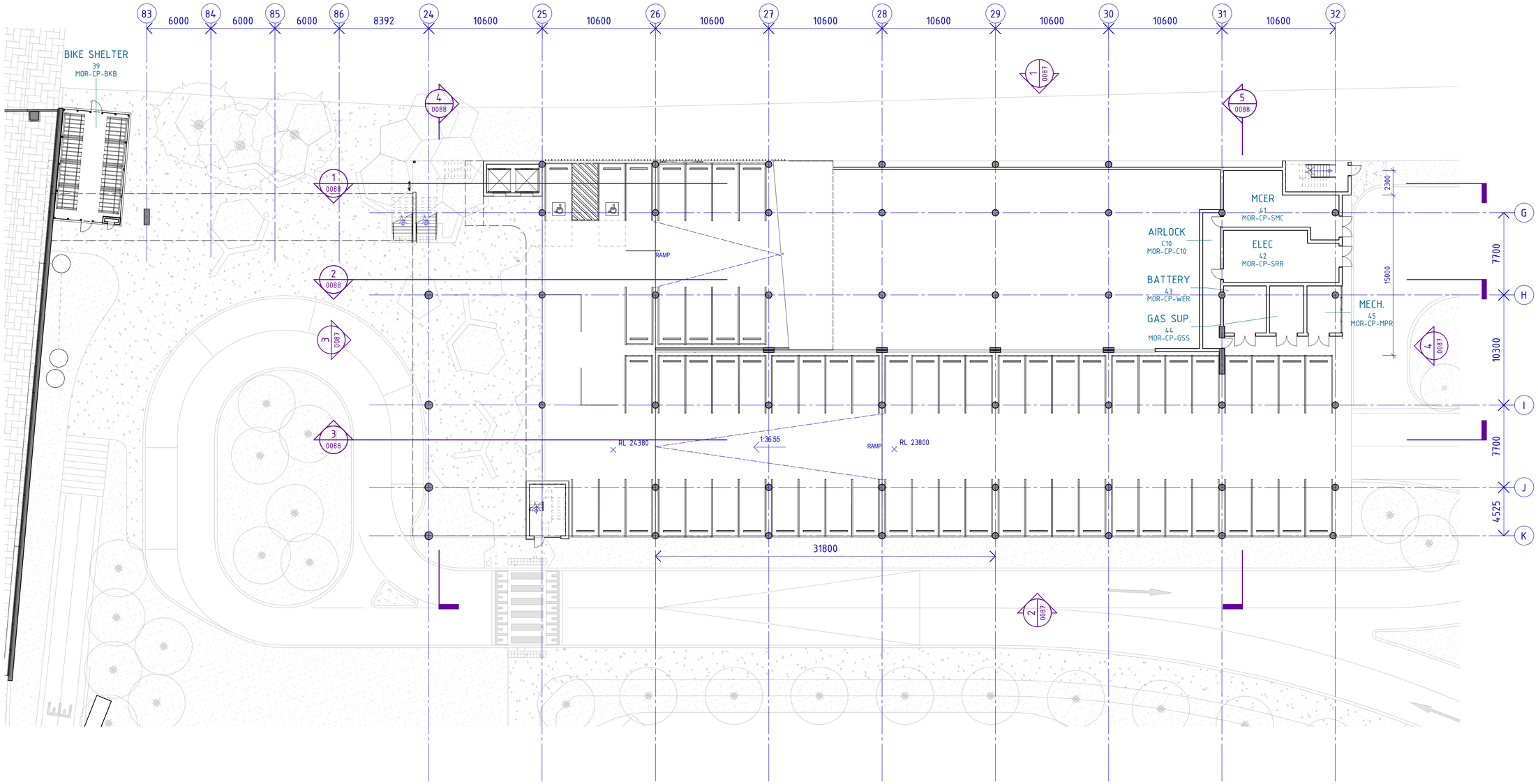
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
ENLARGED PLANS
MSCP SECTIONS

PTA Drawing No: 25-A-285-AR0088 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 CAR PARK - GROUND
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

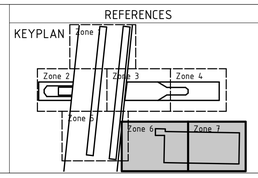
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

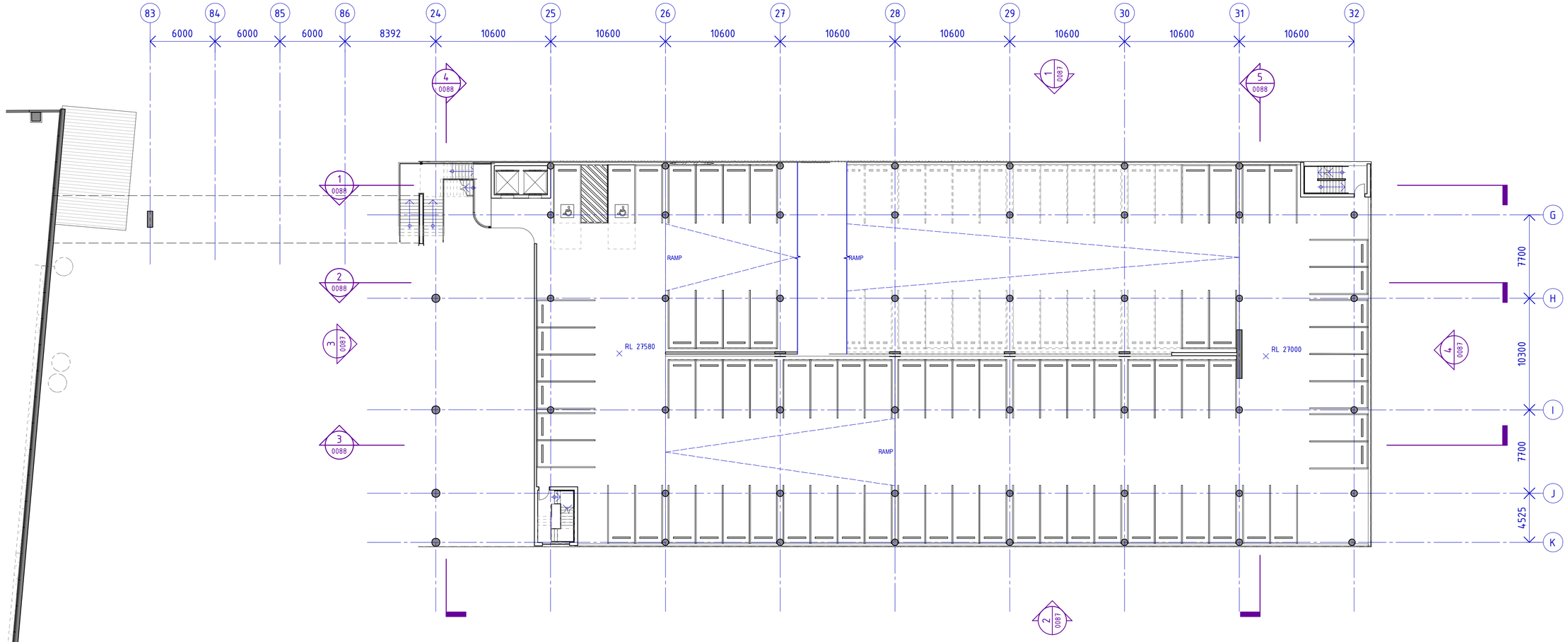
Government of Western Australia
Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
ENLARGED PLANS
PTA DECKED CARPARK

PTA Drawing No: 25-A-285-AR0095 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 CAR PARK - LEVEL 1
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

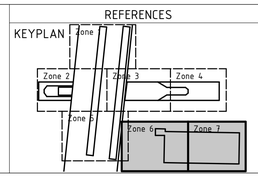
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J,MANGAN
DRAWN B. TRISCARI
CHECKED D'OBRIEN
APPROVED Approver
DATE 25.02.22

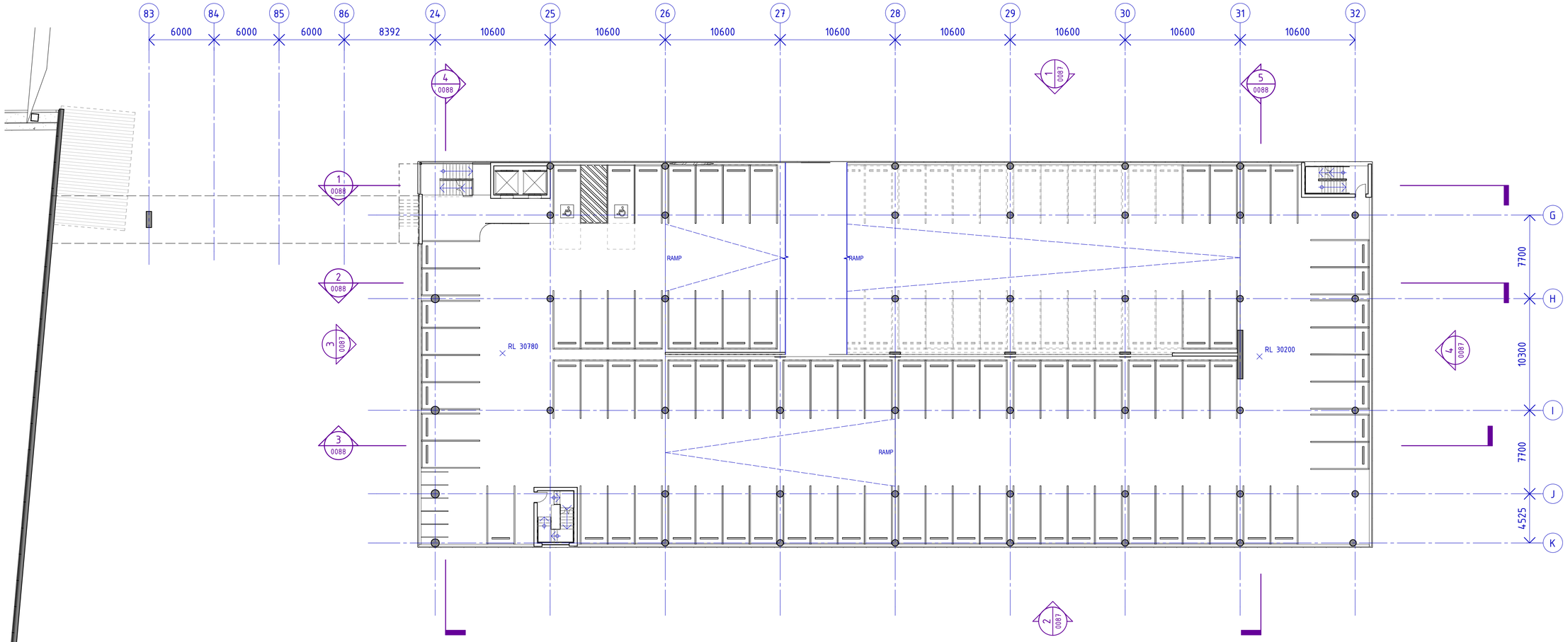
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
ENLARGED PLANS
PTA DECKED CARPARK

PTA Drawing No: 25-A-285-AR0096 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 CAR PARK - LEVEL 2
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

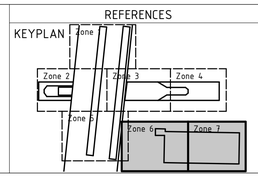
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

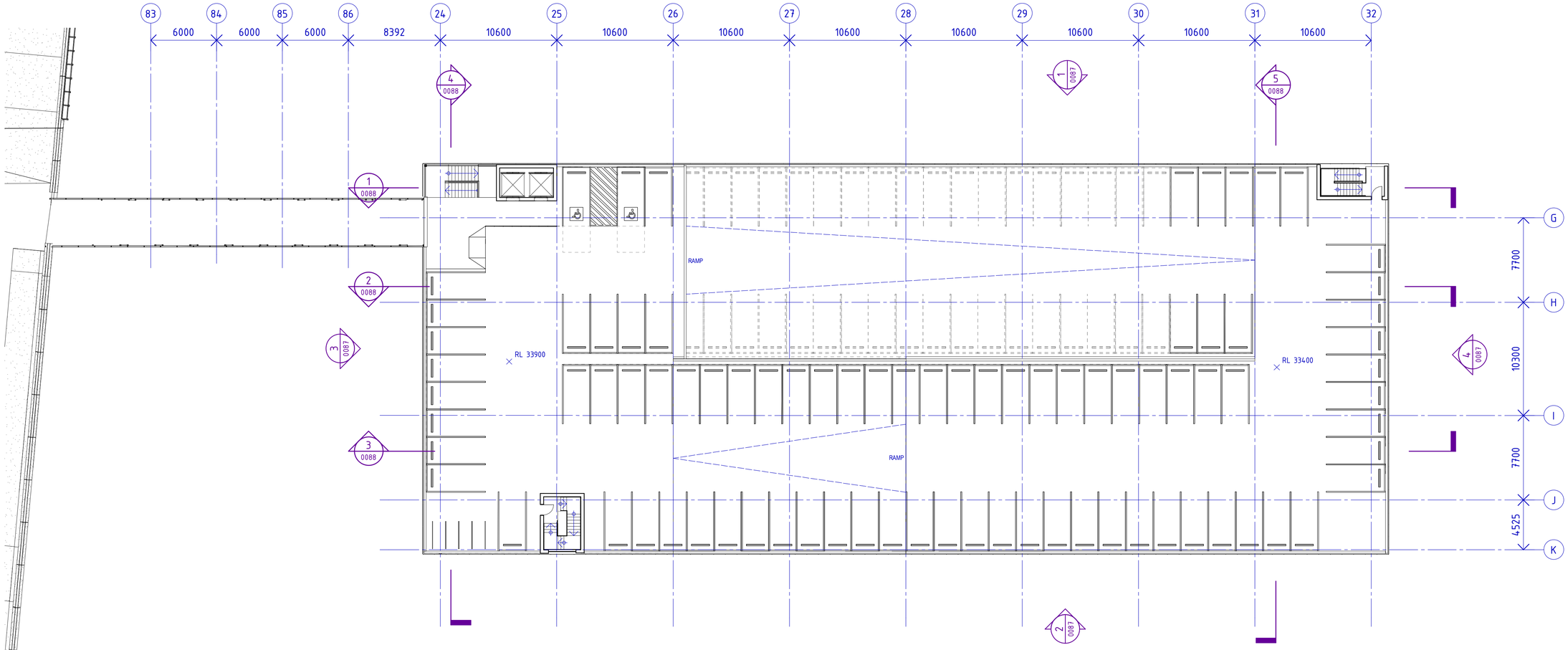
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
ENLARGED PLANS
PTA DECKED CARPARK

PTA Drawing No: 25-A-285-AR0097 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



1 CAR PARK - LEVEL 3
SCALE 1 : 200

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	25.02.22	ISSUED FOR RD - PTA REVIEW	JM	BT	DOB	

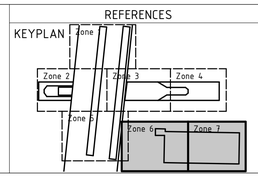
ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

KEYPLAN



SCALE 1 : 200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED J. MANGAN
DRAWN B. TRISCARI
CHECKED D. O'BRIEN
APPROVED Approver
DATE 25.02.22

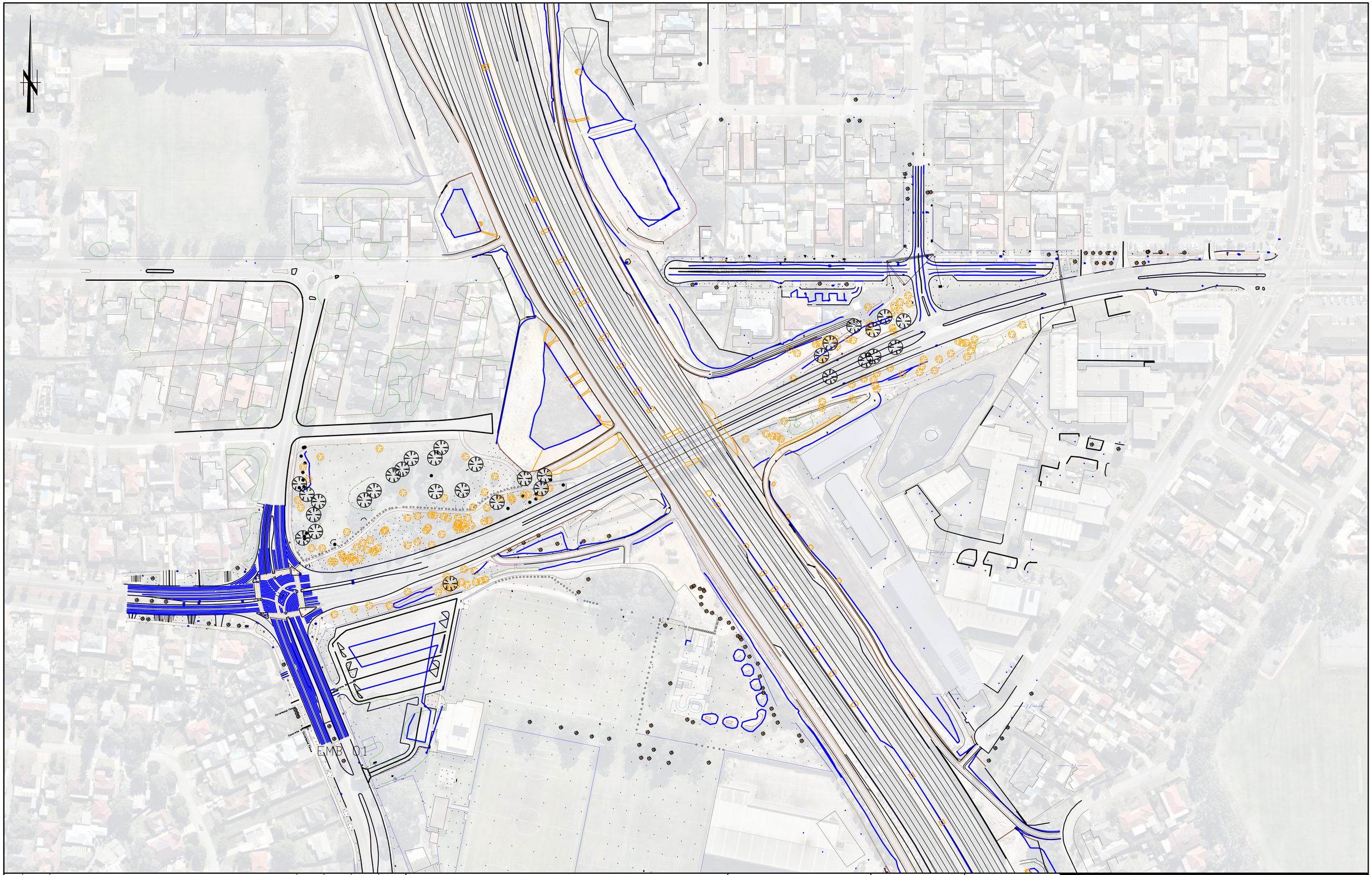
Government of Western Australia Public Transport Authority

MORLEY ELLENBROOK LINE

MORLEY STATION - ARCHITECTURE
ENLARGED PLANS
PTA DECKED CARPARK

PTA Drawing No: 25-A-285-AR0098 Rev: A

CAD DRAWING PATHNAME BIM 360://160729_Metronet Morley Ellenbrook Line/25-B-285-AR0001.rvt



REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A	21-08-02	FIRST ISSUE				

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

MEL connx

REFERENCES

SCALE 1:2000

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED

DRAWN Z. FARMER

CHECKED G. LOCKARD

APPROVED

DATE

Government of Western Australia
Public Transport Authority

Morley Existing Civil Layout

PTA Drawing No: MEL-MLCX-CI-SKT-00011 Rev: A

CAD DRAWING PATHNAME H:\0500 Design, Engineering & Technical\0502 Digital Engineering\5 Team Working Folders\ZF\20210802 Feature Survey Update\20210707 -MLCX - Existing Precinct Civil Layouts.dwg

D

Appendix F
Schedules

Project number	160729
Project name	Morley Ellenbrook Line Stations and Precincts

Deliverable ID
MEL-MLCX-AR-SCH-00011

Revision	Checked	Approved	Date Revised	Status
G	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL - IDD	20/08/2021
B	Issued for PTA Review	MAL - IDD NOR – RD	04/10/2021
C	Issued for Review	ELL - FDD	12/11/2021
D	Issued for PTA Review	MAL - FDD	17/12/2021
E	Issued for PTA Review	MAL – FDD	11/02/2022
F	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
G	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

01 CONTENTS

Schedule

CD

Cladding

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00013

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL - IDD	20/08/2021
B	Issued for Information	WHP - RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR- RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL - FDD	17/12/2021
F	Issued for PTA Review	MAL - FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope

Requirement: The works include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all cladding inclusive of all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including the following worksection(s):

– *0431 Cladding - combined.*
– *0182 Fire stopping*
– *0346 Structural fire protection systems*

References

This schedule is to be read in conjunction with:

– the trade specific requirements if applicable of the **Acoustic Report** including all appendices and referenced supplementary documents
– the trade specific requirements of the **Section J1 Fabric Report** including all appendices and referenced supplementary documents
– the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory
– Warranty period

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Assembly codes, panel material types and annotation

General: This document lists and describes the various materials, selections and components to be used in the fabrication, assembly and installation of the Cladding assemblies.

Selection legends: Panel materials are defined in the SELECTIONS LEGENDS subsection as follows:

Each selection is assigned a unique two-digit numerical identifier (e.g. 01, 02, etc.).

Each selection is typically described by material, colour and finish/texture.

Annotation: Cladding systems are annotated (on the drawings) by building assembly code (e.g. *CD:01*, *CD:02* etc.). Selections are identified within the Building Assembly description.

Assembly codes, panel material types and annotation

General: This document lists and describes the various materials, selections and components to be used in the fabrication, assembly and installation of the Cladding assemblies.

Selection legends: Panel materials are defined in the SELECTIONS LEGENDS subsection as follows:

- Selections are grouped by type (e.g. Composite panel, Metal sheet, Stone etc.)
- Each selection within a type group is assigned a unique two digit numerical identifier (e.g. 01, 02, etc.).
- Each selection is typically described by material, colour and finish/texture.
- Panel material options within a Building Assembly description are assigned a unique lower case alphabetic identifier (e.g. a, b, etc.) and are described by “calling” a selection by selection group name and identifier (e.g. Composite aluminium 01, Stone 03, etc.)

Annotation: Cladding materials selections are annotated (on the drawings) by appended the panel material option identifier as a suffix to the building assembly codes. (e.g. CD:03b indicates cladding system CD:03 in panel material option “b”).

Assembly codes, panel material types and annotation

General: This document lists and describes the various materials, selections and components to be used in the fabrication, assembly and installation of the Cladding assemblies.

Selection legends: Panel materials are defined in the SELECTIONS LEGENDS subsection as follows:

- Selections are grouped by type (e.g. Composite panel, Metal sheet, Stone etc.)
- Each selection within a type group is assigned a unique two digit numerical identifier (e.g. 01, 02, etc.).
- Each selection is typically described by material, colour and finish/texture.
- Panel material options within a Building Assembly description are assigned a unique lower case alphabetic identifier (e.g. a, b, etc.) and are described by “calling” a selection by selection group name and identifier (e.g. Composite aluminium 01, Stone 03, etc.)

Annotation: Cladding systems are annotated (on the drawings) by building assembly code (e.g. CD:01, CD:02 etc.). Selections are identified within the Building Assembly description as Panel material options and each and every panel is annotated (on the drawings) by option identifier

Performance

General: Unless specifically scheduled otherwise cladding systems are not required to achieve any particular:

- Acoustic performance,
- Thermal performance
- FRL (Fire Resistance Level as defined by the national Construction Code).

Acoustic performance requirements

General: The acoustic performance values specified in the Schedule are the minimum in-situ requirements.

Testing: Acoustic performance is subject to site testing to ensure compliance.

Acoustic seal

General: When acoustic performance is specified in the Schedule:

Tape seals: 3mm thick closed-cell EDPM adhesive backed foam tape. Width to suite application.

Mastic seal: Acoustically rated single component synthetic rubber sealant.

Thermal separation

General: When acoustic performance is specified in the Schedule ensure that all cladding components are therWmally separated from the building structure by a suitable insulation material.

R value: 0.25 minimum.

Prototypes

General: Erect a prototype of each cladding system that requires a prototype, including at least one example of each component in the system to verify selections submitted as samples, to demonstrate aesthetic effects, to set quality standards for materials and execution and to verify performance, including wind loading.

Inclusions:

– Typical components, attachments to building structure and methods of installation.
– Window opening with cladding panel, trim and returns.
– Sealant filled joint.

Incorporation: Subject to approval, incorporate the prototype in the completed works.

02 SCHEDULE

CD:01 Equitone Cladding System

Used in stations: ~~MOR |~~ **NOR | WHT** ~~| MAL | ELL~~

Framing:	Proprietary concealed system for external applications comprising: Concealed rigid steel subframe system with primary and secondary steel sections and bracing as required to support the ceiling suitable for external conditions.
Lining:	1 x 8mm prefinished fibre cement panels with open joints. Product: Equitone Finish: Natura Colour: a- N991 (tbc) b- N294 (tbc) Size: Refer to drawings Joints: 15mm Open / expressed
Installation:	Face fixed with colour matched heads. In accordance with the manufacturer's recommendations for the intended application.
Insulation:	IN:01 Refer to *IN – Insulation schedule*
Cornice:	Square set.
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CD:02 FC Sheeting

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Location:	~~Platform & Bus interchange~~ Accommodation cladding, back of parapet lining, additional layers of cladding for wet areas etc
Type:	Pre-finished fibre cement panel
Thickness:	12mm thk
Fixing:	Mechanically fixed to wall stud system to Manufacturer's requirements.
Joints:	Public visible side: expressed joints BOH or not visible by public: recessed flush
Finish:	Painted – Refer to *PA - Paint Schedule*
Skirting:	All CD:02 fronting station concourse to have TR:01 Trim Flush with FC Finish

CD:03 FC Infill Panel to Columns

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Type:	Pre-finished fibre cement panel
Thickness:	12mm thk
Fixing:	Exposed colour matched screws or rivets fixed to welded angles to steel columns, to Manufacturer's requirements.

Finish: Painted – *Refer to drawings and PA - Paint Schedule* for paint specification and colour

CD:04 ~~CFC Sheeting – ExoTec Façade™ Panel and System~~ Not in Use

CD:05 ~~Folded~~ Metal Cladding

Used in stations: **MOR** |~~NOR~~| **WHT** | **MAL** | **ELL**

Manufacturer: HVG Facades or equivalent

Product: Mondoclad or equivalent

Material: Precoated solid aluminium cladding

Thickness: 3mm thk

Fixing: Mechanical cassette fixing to top hats on steel sub framing

Finish: PVDF Fluoropolymer coating

Colour: Charcoal

CD:06 FC Box Out to Fire Rated Columns

Used in stations: **MOR** |~~NOR~~ | ~~WHT~~ | **MAL** |~~ELL~~

Type: Pre-finished fibre cement panel with fire board column lining.

Thickness: 12mm thk FC outer lining and fire board inner lining thickness to meet required FRL.

Lining: FC lining to wrap fire board column lining. ~~**FP:02**. *Refer to FP: Fire Protection Schedule*~~

Product: Promatect 100 fire board or equivalent to Structural and Fire Engineer's specifications.

Manufacturer: Promat or equivalent

Fixing: Exposed colour matched screws or rivets fixed to welded angles to steel columns, to Manufacturer's requirements.

Finish: Painted – *Refer to drawings and PA - Paint Schedule* for paint specification and colour

CD:07 Aluminium Column Cladding Box Out

Used in stations: ~~MOR | NOR~~ | **WHT** | ~~MAL | ELL~~

Material: Precoated solid aluminium cladding

Thickness: 4mm thk

Fixing: Mechanical cassette fixing to tophats on steel sub framing

Finish: PVDF Fluoropolymer coating

Colour: Charcoal

Product: Mondoclad or equivalent

Manufacturer: HVG Facades or equivalent

CD:08 Folded Metal Cladding – External Facade

Used in stations: **MOR | ~~NOR~~ | ~~WHT~~ | MAL | ~~ELL~~**

Manufacturer: HVG Facades or equivalent

Product: Mondoclad or equivalent

Material: Precoated solid aluminium cladding

Thickness: 3mm thk

Fixing: Mechanical cassette fixing to top hats on steel sub framing

Finish: PVDF Fluoropolymer coating

Colour: Champagne

CD:09 Aluminium Cladding

Used in stations: ~~**MOR | NOR |** **WHT | MAL | ELL**~~

Location: Under Escalators

Material: Precoated solid aluminium cladding

Thickness: 4mm thk

Fixing: Mechanical cassette fixing to tophats on steel sub framing

Finish: PVDF Fluoropolymer coating

Colour: To match escalator cladding

Product: Mondoclad or equivalent

Manufacturer: HVG Facades or equivalent

Schedule

CL

Ceilings and Soffits

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00015

Revision	Checked	Approved	Date Revised	Status
J	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP – RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR - RD	04/10/2021
D	Issued for Review	ELL - FDD	12/11/2021
E	Issued for PTA Review	MAL - FDD	17/12/2021
F	Issued for Review	WHP – IDD	24/01/2022
G	Issued for PTA Review	MAL - FDD	11/02/2022
H	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
J	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope

Requirement: The works described in this Schedule include but are not limited to:

– the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all ceilings inclusive of all necessary accessories required to complete the works.
– linings on suspension and fixing systems, including all thermal and acoustic insulation, junctions, trims, and minor works
– fire protection linings on suspension and fixing systems, including all thermal and acoustic insulation, junctions, trims, fire rated joints and sealants and minor works
– access panels
– allowance for any necessary requirements of the installation specification of the manufacturer to enable a complete execution of the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including the following worksection(s):

– *0531 Suspended ceilings - combined*

This schedule is to be read in conjunction with the Structural Engineer's documents.

References

This schedule is to be read in conjunction with:

– the trade specific requirements if applicable of the Acoustic Report including all appendices and referenced supplementary documents
- the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Dimensions

General: Plan dimensions are always shown to the face of the structural component of the assembly (framing or masonry substrate etc.). Any applied finishes are “outside” the shown dimension and reduce the room dimensions

Notations: The following notations are used in lieu of dimensions:

- The notation FLUSH (on the Drawings) indicates that the face of the masonry is to be aligned with abutting element to facilitate a flush finish.
- The notation ALIGN (on the Drawings) indicates that faces of the masonry are to be aligned across the opening so that they finish aligned.

Bracing (seismic restraint of ceilings)

General: Ceiling systems shall be designed and installed to resist seismic forces in accordance with AS 1170.4. Securely fix all members and provide additional bracing as necessary back to the building structure in both directions. Do not rely on gravity and/or friction to resist seismic forces.

Contiguous assemblies

Requirements: The various assemblies specified in the Schedule frequently combine with and are contiguous with each other. Where assemblies are contiguous the interfaces shall be seamless without any visible demarcation. Extend linings across abutting and embedded structural elements unless specifically detailed otherwise. Offset the line of contiguous studwork as required.

Bulkheads

General: Construct and integrate bulkheads and other similar ceiling formations as an integral part of the ceiling structure and brace to prevent lateral movement. If the ceiling is terminated at a bulkhead, provide for seismic requirements.

Reveals and trim

Requirements: Finish reveals, and intersections as follows:

- Cornice (shadowline): Proprietary perforated metal shadowline stopping angle (flushed in). Rondo P51/52/53 or equal to approval.
- Cornice (square set): Proprietary perforated metal Internal Corner Bead (flushed in). Rondo PS17 or equal to approval.
- External angels (90°): Proprietary perforated metal Corner Bead (flushed in). Rondo P01 or equal to approval.
- External angels (<>90°): Proprietary metal reinforced flexible corner tape (flushed in). Sheetrock Flexible Metal Tape-On or equal to approval.
- Sheet edges: Proprietary perforated metal Stopping Bead (flushed in). Rondo P12/13/14 or equal to approval.
- Expansion joints: Proprietary perforated metal Expansion Joint (flushed in). Rondo P35 or equal to approval.

Jointing plasterboard

Requirements: Jointing between all types of lining sheets scheduled as recessed edge:

Tape, set and flush in accordance with the manufacturer’s instructions to a Level 4 finish.

Butt joints: Make joints over framing members or otherwise provide back blocking.

External corner joints: Make joints over metallic-coated steel corner beads.

Control joints: Align lining control joints with structural control joints and as follows:

- Ceilings: At maximum 12 m centres.
- Control joint beads: Purpose-made metallic-coated.
- Location: If possible, position joints to intersect light fixtures, vents or air diffusers.

Wet areas: Install additional supports, flashings, trim and sealants, as required.

Multiple sheet layers - plasterboard

Application: Fire-resisting and acoustic rated ceilings.

Joints: Fill and flush up all joints and fixings in each layer and caulk up perimeters and penetrations before installing following layers. Stagger all sheet joints by minimum 200 mm.

Jointing fibre cement

Flush joints: Provide recessed edge sheets and finish flush using perforated paper reinforcing tape.

External corner joints: Make joints over metallic-coated steel corner beads.

Dry joints: Provide square edged sheet and finish with a PVC-U joining section.

Control joints: Align lining control joints with structural control joints and as follows:

– Ceilings: To divide into bays not larger than 10.8 x 7.2 m.
– Soffit linings: To divide into bays not larger than 4.2 x 4.2 m or 5.6 x 3.6 m.
– Control joint beads: Purpose-made metallic coated.
– Support: Provide framing parallel to the joint on each side. Do not fix the lining to abutting building surfaces.
– Location: If possible, position joints to intersect light fixtures, vents or air diffusers.

Wet areas: Install additional supports, flashings, trim and sealants, as required.

Multiple-sheet layers – fibre cement

Application: Fire-resisting and acoustic rated ceilings.

Joints: Fill and flush up all joints and fixings in each layer and caulk up perimeters and penetrations before installing following layers. Stagger all sheet joints by minimum 200 mm.

Performance

General: Unless specifically scheduled otherwise ceilings are not required to achieve any particular:

– Acoustic performance,
– Thermal performance
– FRL (Fire Resistance Level as defined by the national Construction Code).

Acoustic performance requirements

General: Ceilings are not required to have an acoustic performance unless specifically specified otherwise in the Schedule.

Testing: Where acoustic performance is required the assembly is subject to site testing to ensure compliance.

Fire performance requirements

General: Ceilings are not required to have a fire-resistant acoustic performance unless specifically specified otherwise in the Schedule.

Performance: Where fire resistant performance is required the performance shall be at least equivalent to the performance values specified for the ceiling assembly.

Acoustic seal

Tape seals: 3mm thick closed-cell EDPM adhesive backed foam tape.
Width to suite application.

Mastic seal: Acoustically rated single component synthetic rubber sealant.

Fire seal

Mastic seal: Fire rated single component synthetic rubber sealant.

Expansion joints:

Requirements: If expansion joints are not specifically documented install in accordance with the board manufacturer's recommendations.

Confirm location and arrangement with the Architect before proceeding.

Access Panels:

Fire Rated: Promatect-L Ceiling Access Panel
Size: 600 x 600 mm.

Non-Fire rated: Panther SRAP 60 BL SB access panel with set beads and budget lock.
Size: 600 x 600 mm.

Fire Hazard Properties

Minimum standard required to ensure fire load is limited:

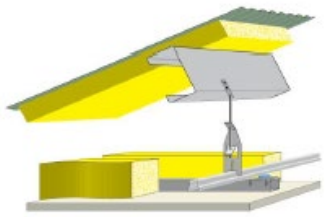
Wall/Ceiling Lining: Where no sprinklers are installed, a smoke growth rate not more than 100, or – an average specific extinction area less than 250m2/kg. In Public corridors Material group of 1, and other Specific Areas 1 or 2.

Sub-Framing

Rondo to provide an engineering solution and detailing for the sub frame systems and connections back to main structure. Suspension rods to be fixed to underside of concrete where possible, to eliminate fixing into steel structure that requires 120 year durability endurance as per PTA Standards.

02 SCHEDULE

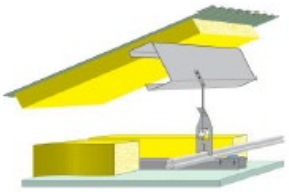
CL:01 Plasterboard Ceiling



Used in stations: **MOR |-NOR | WHT | MAL | ELL**

Framing:	Proprietary Rondo or similar concealed furring channel suspension system
Lining:	1 x 13mm ceiling grade recessed edge plasterboard, flush jointed. Product: Gyprock by CSR or similar
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Flushed finish. Painted, refer *to PA – Paint Schedule*
Cornice:	Shadowline - Rondo P50
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:02 Moisture Resistant Plasterboard ceiling



Used in stations: **MOR |-NOR | WHT | MAL | ELL**

Framing:	Proprietary Rondo or similar concealed furring channel suspension system
Lining:	1 x 13mm water/moisture resistant grade recessed edge plasterboard, flush jointed. Product: Gyprock by CSR or similar
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Flushed finish. Painted, refer *to PA – Paint Schedule*
Cornice:	Shadowline - Rondo P50
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:03 120/120/120 Fire rated self-supporting ceiling system

Used in stations: **MOR |-NOR | WHT | MAL | ELL**

Performance:	The fire rating performance requirements of this assembly is required to achieve FRL 120/120/120 from both sides
Framing:	Proprietary Rondo or similar concealed furring channel suspension system.
Lining:	ABOVE (steel joist) 2 x 16mm Gyprock Fyrchek plasterboard by CSR or similar BELOW (steel joist) 3 x 16mm Gyprock Fyrchek plasterboard by CSR or similar
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Flushed finish. Painted, refer *to PA – Paint Schedule*
Sealant:	Seal all gaps with fire rated mastic as per manufacturer's specifications.
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:04 Profiled Colorbond steel cladding

Location: Malaga Platform soffit above rail

Used in stations: **MOR |~~NOR | WHT~~ | MAL | ELL**

Framing:	Face fixed with Tek screws and washers to proprietary Rondo or similar concealed furring channel suspension system.
Lining:	Nom. 850mm wide sheet x 0.42BMT, 4mm profile, ribbed steel sheet metal cladding with low fluted profile Product: Lysaght Panelrib®
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Prefinished, standard Colorbond range. colour: Monument

Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:05 120/120/120 Fire Rated Ceiling

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Performance:	The fire rating performance requirements of this assembly is required to achieve FRL 120/120/120
Framing:	Proprietary Rondo or similar concealed furring channel suspension system.
Lining:	3 x 16mm Gyprock moisture resistant Fyrchek plasterboard by CSR or similar
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Flushed finish. Painted if exposed and/or visible, refer *to PA – Paint Schedule*
Sealant:	Seal all gaps with fire rated mastic as per manufacturer's specifications.
Bulkhead:	Form bulkhead as an integral part of the ceiling.
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:06 Fibre cement ceiling

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Framing:	Proprietary Rondo or similar concealed furring channel suspension system.
Lining:	1 x 6mm fibre cement board, expressed jointed with backing strip.
Insulation:	n/a
Installation:	Face fixed in accordance with the manufacturer's recommendations for the intended application
Finish:	Painted, refer *to PA – Paint Schedule*

CL:07 Suspended accessible grid ceiling

Used in stations: **MOR |-NOR | WHT | MAL | ELL**

Framing:	Proprietary Armstrong Suprafine Suprafine 15mm grid or similar exposed T suspension system Colour: White
Ceiling panels:	Armstrong Ultima Lay-In or equivalent mineral fibre ceiling panel with bevelled Tegular edge Product Code: BP1013G Size: 1200mm (L) x 300mm (w) x 19mm Finish: Pre- finished smooth non-directional white finish
Installation:	In accordance with the manufacturer's recommendations for the intended application
Cornice:	Shadowline - Rondo P50.
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

CL:08 Station & Platform Decorative Soffits

Used in stations: **MOR |-NOR | WHT | MAL | ELL**

Framing:	Proprietary concealed system for external applications comprising: Concealed rigid steel subframe system with primary and secondary steel sections and bracing as required to support the ceiling suitable for external conditions.
Lining:	1 x 8mm prefinished non combustible fibre cement panels with open expressed joints with backing strip. Product: Naturion Material Decors Finish: Fotescue Oxide Code NTM020 Size: Refer to drawings Joints: 15mm Open / expressed Supplier: Bluechip
Installation:	Face fixed with colour matched heads. In accordance with the manufacturer's recommendations for the intended application.
Insulation:	IN:01 Refer to *IN – Insulation schedule*
~~Cornice:~~	~~Square set.~~

Note:	All services fittings and fixtures - Sample to be issued to architects for approval prior to installation.

CL:09 Acoustic Ceiling

Used in stations: ~~MOR | NOR |~~ **WHT** ~~| MAL | ELL~~

Location:	Underside of Viaduct Structure Whiteman Park
Performance:	The acoustic rating performance requirements of this assembly is required to achieve an RNC of 0.8
Framing:	Lindner Group LMD-E – TDS or similar Lindner standard substructure, hook-on profiles, threaded rods.
Lining:	0,70 mm steel, coated with RAL range of colours with back tissue.
Sizes:	Varies. Refer to Reflected Ceiling Plans

CL:10 90/90/90 Fire Rated Ceiling

Location:	Kiosk ceiling

Used in stations: **MOR |** ~~NOR |~~ **WHT | MAL | ELL**

Performance:	The fire rating performance requirements of this assembly is required to achieve FRL 90/90/90
Framing:	Proprietary Rondo or similar concealed furring channel suspension system
Lining:	2 x 16mm Gyprock Fyrchek plasterboard by CSR or similar
Insulation:	n/a
Installation:	In accordance with the manufacturer's recommendations for the intended application
Finish:	Flushed finish. Painted, refer *to PA – Paint Schedule*
Sealant:	Seal all gaps with fire rated mastic as per manufacturer's specifications.
Bulkhead:	Form bulkhead as an integral part of the ceiling.
Note:	All services fittings and fixtures are to be coloured to match the finish of the associated ceiling. Sample to be issued to architects for approval prior to installation.

Schedule

FC

Floor Coverings

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00022

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP – RD	24/09/2021
C	Issued for PTA Review	MAL – FDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of works

Requirement: The works described in this Schedule include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of:

– the preparation of substrates including floor screeds, levelling, priming and the like.
– all resilient finishes inclusive of all necessary accessories required to complete the work.
– all carpets inclusive of all necessary accessories required to complete the work.
– all engineered panel flooring inclusive of all necessary accessories required to complete the work.
– all timber flooring inclusive of all necessary accessories required to complete the work.
– floor sanding and finishing inclusive of all necessary accessories required to complete the work.
– all resin based seamless flooring inclusive of all necessary accessories required to complete the work.
– co-ordinating with the Hydraulic trades to seal floor waste junctions; and
– co-ordinating with the Joiner and other like trades to trim to fixtures.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in **cross reference**.

Cross reference

This schedule is to be read in conjunction with the Specification including but not limited to the following worksection(s):

– *0651 Resilient finishes.*

References

This schedule is to be read in conjunction with:

– the trade specific requirements if applicable of the Acoustic Report including all appendices and referenced supplementary documents
– the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Colour selections and annotation

General: Where colour variants are specified they are annotated (on the drawings) by appended the colour variant identifier as a suffix to the building assembly codes. (e.g. **FC:01b** indicates Floor covering system **FC:01** in colour variant "**b**").

Transition strips

General: Supply and install transition strips at the interface between floor coverings of different types as follows:

- Product: DTA Aluminium L-Shaped trim.
- Size: 8mm (deep).
- Colour: Black.

Transitions: Where floor coverings of different thicknesses abut provide graded transition as follows:

- an applied floor finish of greater thickness:
  - build up the substrate with the preparation material to allow this material to finish 1mm below the abutting material. Make the transition over a width of 600mm

Substrate tolerance table – Resilient finishes

Property	Length of straightedge laid in any direction	Max. deviation under the straightedge
Planeness	2 m	4 mm
Smoothness	150 mm	1 mm
Projections	50 mm	0.5 mm

Substrate tolerance table - Carpet

Property	Length of straightedge laid in any direction	Max. deviation under the straightedge
Flatness Class B	3 m	6 mm
Smoothness	150 mm	1 mm

Substrate tolerances table – Resin Flooring

Property	Length of straightedge laid in any direction	Maximum deviation under the straightedge
Flatness Class A	2 m	4 mm
Smoothness	150 mm	1 mm
Projections	50 mm	0.5 mm

Surface regularity for wearing surface table -Resin Flooring

Class	Maximum permissible departure from a 2 m straightedge laid in contact with the floor (mm)	Application
SR1	3	High standard: Special floors.
SR2	5	Normal standard: Normal use in commercial and industrial buildings
SR3	10	Utility standard: Where surface regularity is less critical

Fire Hazard Properties

Minimum standard required to ensure fire load is limited:

Floor Coverings / Linings: Where no sprinklers are installed, a maximum smoke developed rate of 750 percent minutes, and critical radiant flux not less than 2.2kW/m2

02 SELECTIONS LEGEND

Colour selections and annotation

General: Where colour variants are specified they are annotated (on the drawings) by appended the colour variant identifier as a suffix to the building assembly codes. (e.g. **FC:01b** indicates Floor covering system **FC:01** in colour variant "**b**").

Colour selections:

a To be advised

03 SCHEDULE

FC:01 Anti-Static Sheet Vinyl Flooring

Location:	Staff Crib, Comms rooms/ Transit Guard Booth, CSO
Used in stations:	**MOR |-NOR | WHT | MAL | ELL**
Material:	Slip resistant vinyl sheets flooring with matching skirting
Finish:	P4/ R11 Slip resistance, anti- static to services rooms
Product:	Medintone D10 or equivalent
Manufacturer:	Armstrong Flooring or equivalent
Size:	2m x 20m x 2.00mm gauge sheet
Colour:	Deep Grey
Skirting:	Wrap vinyl up wall to form a 150mm high coved skirting. Use cove fillet and install as recommended by manufacturer.

D

Schedule

FM

Fabricated Metalwork

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00023

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

MEL connx

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP – RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of work

Requirement: The works include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all metalwork inclusive of all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including the following worksection(s):

– *0552 Metalwork – fabricated*
– *0553 Stainless steel benching.*

References

This schedule is to be read in conjunction with:

– the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

02 SCHEDULE

FM:01 ~~Fixed Vertical Sun Blades~~

~~Used in stations: MOR | NOR | WHT | MAL | ELL~~
~~Description: Fixed vertical aluminium sun blades~~
~~Finish: Powder coated~~
~~Product: Zest® Bullet - Single Blades~~
~~Manufacturer: Arcadia or equivalent~~
~~Size: 320mm Wide x 75mm Deep~~
~~Span: 3500mm~~
~~Colour: TBC~~

FM:02 VT Perforated Vertical Screening

sed in stations: ~~MOR | NOR | WHT |~~ **MAL** | ~~ELL~~

Description: Perforated solid flat aluminium panel fixed to horizontal steel sub-frame – refer to detail drawings
Thickness: 3mm thick
Finish: Powder coated
Pattern: **FM:02a** - Standard perforation pattern. 9.5mm hole at 40% open area.
FM:02b – Custom graphic perforations with public art integration. Allow for extra over integrated artwork. Pic Perf or equivalent
Manufacturer: Locker Group or equivalent
Size: Panel formed from standard sheet size – nom. 460mm wide with 50mm folds at ends, refer to drawings for panel height/length
Colour: TBC

FM:03 Perforated Metal Screening with Artwork Graphic by Artist

Used in stations: ~~MOR | NOR | WHT |~~ **MAL | ELL**
Description: Custom perforated solid aluminium panel
Thickness: 3mm thick
Finish: Powder coated
Structure: 125 x 75 RHS at minimum 1200 centers (refer to drawings for set-out)
Pattern: **FM:03a** - Standard perforation pattern. 9.5mm hole at 40% open area.
FM:03b – Standard perforation pattern (at OLE areas).

3.2mm hole at 30% open area

FM:03c – Custom graphic perforations with public art integration. Allow for extra over integrated artwork. Pic Perf or equivalent

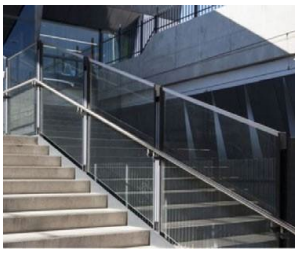
Manufacturer: Locker Group or equivalent

Size: 2400mm X 1200mm std, refer to drawings for height of screens

Colour: TBC

To be in accordance with AS1170.1

FM:04 Glass balustrades with stainless steel stanchions & handrails



Used in stations: **MOR |-NOR | WHT | MAL** ~~| ELL~~

Glazing pocket: Refer to the Structural Engineer's documentation for details of the welded steel plate glazing pockets and for details of building-in to the edge of the concrete floor slabs and pre-cast concrete stair sections

Handrail: RAIL:

Description: Side mounted stainless steel pipe. Grade 304

Diameter: 44.45mm

Wall: 2.1mm

Finish: No.4 finish (linished) with 300mm section of yellow high visibility paint to ends

BRACKET:

Fethers BF1400-50 Post attachment with custom M12 offset bracket

Stanchion: END STANCHION:

Core post: Material: Stainless steel tube. Grade 304

Size: 25.4x25.4mm Wall; 1.6mm

Post plates: Material: Stainless steel flat bar. Grade 304

Size: 90x16mm

Base plate: Material: Stainless steel flat bar. Grade 304

Size: 150x150x10mm Processing: Drill to receive 4no. M12 countersunk screws.

Arrangement: 2no. post plates and 1no. core post arranged as a hollow "H"

Bracket: 1no. Fethers BF1400-50 Post attachment with custom M12 straight bracket

Fabrication: Fillet weld all components in accordance with the Structural Engineer's requirements.

Finish: No.4 finish (linished)

INTERMEDIATE STANCHION:

Core post: Material: Stainless steel tube. Grade 304

Size: 25.4,25.4mm Wall: 1.6mm

Post plates: Material: Stainless steel flat bar. Grade 304

		Size: 90x16mm
	Base plate:	Material: Stainless steel flat bar. Grade 304
		Size: 150x150x10mm
		Processing: Drill to receive 4no. M12 countersunk screws
	Arrangement:	2no. post plates and 1no. core post arranged as a hollow “H”
		Bracket: 2no. Fethers BF1400-50 Post attachment with custom M12 offset brackets
		Fabrication: Fillet weld all components in accordance with the Structural Engineer’s requirement.
		Finish: No.4 finish (linished)
	Panels (glass):	GL:04. Refer to MEL-MLCX-AR-SCH-00026
Installation:		Install into the glazing pockets on setting blocks and grout with a non-shrink cementitious structural grout in accordance with the Structural Engineer’s documentation Completely fill the glazing pocket flush with the top edges and for the entire length
		Grout colour: Black

Shop drawings: Shop drawings, and shop drawing review, are an essential part of the delivery and production processes. Submit shop drawings for review prior to commencing this work

FM:05 Handrail

Used in stations: **MOR |-NOR | WHT | MAL** | ~~ELL~~

Rail Description: Stainless steel pipe. Grade 304 ~~with integrated LED strip light~~

Diameter: 44.45mm

Wall: 2.1mm

Finish: No.4 finish (linished) with 300mm section of yellow high visibility paint to ends

Bracket Description: Fethers BF1400-50 Post attachment with custom M12 offset bracket

Finish: Satin finish

~~Product: Forrest range or equivalent~~

~~Manufacturer: Lumorail or equivalent~~

FM:06 Not in use

FM:07 Perforated Screening

Used in stations: **MOR | NOR | WHT** | ~~MAL | ELL~~

Description:	Custom perforated solid aluminium panel
Thickness:	3mm thick
Finish:	Powder Coat
Pattern:	Nom. 5mm dia perforations (<5mm diameter for safety).

Product: tbc
Manufacturer: Locker Group or equivalent
Size: 2440mm X 1220mm std
Colour: TBC

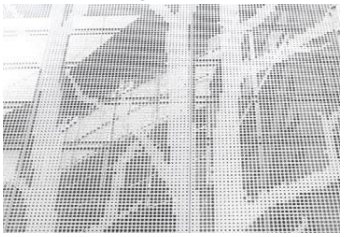
FM:08 Viaduct Screening

Used in stations: ~~MOR | NOR~~ | WHT | ~~MAL | ELL~~
Description: Custom perforated & solid aluminium panel-
Thickness: 3mm thick
Finish: Powder Coated
Pattern: Nom. 5mm dia perforations (<5mm diameter for safety).
Product: LMD-E 213 WL type 1 (customized) - hook-on and fixed panels
Manufacturer: Lindner Group or equivalent
Size: Varies – Refer to elevation
Colour: TBC

FM:09 Wall Mounted Handrail

Used in stations: ~~MOR | NOR~~ | WHT | ~~MAL | ELL~~
Rail Description: Stainless steel pipe. Grade 304
Diameter: 44.45mm
Wall: 2.1mm
Finish: No.4 finish (linished) with 300mm section of yellow high visibility paint to ends. Satin finish
Bracket Description: TBC

FM:10 Perforated Vertical Screening with Graphic by Artist



Used in stations: ~~MOR~~ | NOR | ~~WHT | MAL | ELL~~
Description: Custom perforated solid aluminium panel
Thickness: 3mm thick
Finish: Powder coat
Pattern: Graphic perforations (<5mm diameter for safety)
Product: Pic Perf or equivalent
Manufacturer: Locker Group or equivalent
Size: TBC
Colour: TBC

FM:11 Angled perforated vertical screening

Used in stations: ~~MOR |~~ NOR ~~| WHT | MAL | ELL~~

Description:	Custom perforated solid aluminium panel
Thickness:	3mm thick
Finish:	Powder coated
Pattern:	Custom pattern perforations (<5mm diameter for safety). To be flat panels fixed to angled frames to create a 3D effect
Product:	Pic Perf or equivalent
Manufacturer:	Locker Group or equivalent
Size:	TBC
Colour:	TBC

FM:12 Steel Mesh Cladding

Used in stations: MOR | NOR | WHT | MAL | ELL

Location:	Bike Shelter
Manufacturer:	Gryffin High Security Fencing & Gates
Product:	358 Welded mesh for steel fence & safety barrier cladding
Finish:	Powder coated
Finish:	Powder coated

FM:13 Triangular perforated roof panels

Used in stations: ~~MOR | NOR | WHT |~~ **MAL** ~~| ELL~~

Description:	Custom perforated solid aluminium panel
Thickness:	3mm thick
Finish:	Powder coated
Pattern:	Circular perforations Angled roof panels to create a 3D banksia inspired pattern
Product:	Pic Perf or equivalent
Manufacturer:	Locker Group or equivalent
Size:	9.5mm hole at min 40% open area.

Colour: TBC

FM:13d – Perforated panel colour 1 to landscape arbour structures. Pic Perf or equivalent

FM:13e – Perforated panel colour 2 to landscape arbour structures. Pic Perf or equivalent

FM:13f – Perforated panel colour 3 to landscape arbour structures. Pic Perf or equivalent

FM:13g – Perforated panel colour 4 to landscape arbour structures. Pic Perf or equivalent

Schedule

MW

Metalwork

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00030

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

MEL connx

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP - RD	24/09/2021
C	Issued for PTA Review	MAL - IDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of works

Scope of works

Requirement: The works include but are not limited to:

– Supply and installation of standard accessory items,
– the provision of all labour, materials, plant and equipment necessary for installation of the schedules accessory items in compliance with the manufacturer's written installations and to complete the works.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including but not limited to the following worksection(s):

– *0576 Accessories*

References

This schedule is to be read in conjunction with:

– the trade specific requirements of the **Section J1 Fabric Report** including all appendices and referenced supplementary documents
– the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Packaging

General: Dispose of all packaging.

Groups

The scheduled Accessories are designated as Group 1, Group 2 or Group 3.

Groups are defined as follows:

– Group 1: Accessories supplied/provide and installed as part of the Contract Works.

– Group 2: Accessories supplied/provided by the Proprietor at no cost but installed as part of the Contract Works.
– Group 3: Accessories supplied/provided and installed by the Proprietor at no cost.

The Contractor is to facilitate the installation of these items

02 SCHEDULE

MW:01 ~~Folded Metal Cladding~~ Not in Use

~~Used in stations: MOR | NOR | **WHT** | MAL | ELL~~

~~Material: Precoated solid aluminium cladding~~

~~Thickness: 3mm thk~~

~~Fixing: Mechanical cassette fixing to top hats on steel sub framing~~

~~Finish: PVDF Fluoropolymer coating~~

~~Colour: TBC~~

~~Product: Mondoclad or equivalent~~

~~Manufacturer: HVG Facades or equivalent~~

~~Group: 1~~

MW:02 Hydrant Booster Cabinet

Used in stations: **MOR |** ~~**NOR |** WHT~~ **| MAL | ELL**

Description:	Proprietary hydrant booster cabinet
Supplier:	FlameStop
Product:	VHHBCCUSTOM
Height:	2500mm(W) x 800mm(D) x 1500mm(H)
Colour:	TBC
Group:	1

MW:03 Balustrade

Used in stations: **MOR |** ~~**NOR |**~~ **WHT | MAL | ELL**

Description:	Proprietary framed stainless steel tubular balustrade system with glass infill.
Product:	Nom. 50mm dia. Grade 316 stainless steel tube.
Height:	Refer to drawings
Gate:	Refer to PTA Standard drawing for manual fare gate. To include recessed floor pivot spring.
Glass:	**GL:03.** Refer to Glass Schedule. Thickness: In accordance with AS1288 for the type, location and loading.
Finish:	No.4 Linished / Hairline
Compliance:	Design to AS1428.1
Group:	1

MW:04 Bench Seating

Used in stations: ~~**MOR |**~~ **NOR| WHT | MAL | ELL**

Performance:	To be designed and manufactured to AS1428.2 1992 Clause 27.2 and PTA Standards Book 4 - Furniture and Fitments - Seating
Material:	Grade 304 Stainless steel
Finish:	Satin finish
Group:	1

MW:05 NOT IN USE

MW:06 Balustrade

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Material:	Mild steel hot-dip galvanised safety fence
Thickness:	Nom 40 dia.rail
Finish:	Hot dipped galvanised finish
Product:	Access Products or equivalent
Manufacturer:	Webforge or equivalent
Compliance:	Handrails to have a hazard yellow finish to the entire handrail length, at the handrail ends, where there is a change in direction, or at a break in the handrail.
Group:	1

MW:07 Steel Staircase and Railing

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Material:	Mild steel hot-dip galvanised stair, grating and balustrade
Thickness:	Nom 40 dia.rail
Finish:	Hot dipped galvanised finish
Product:	Access Products or equivalent
Manufacturer:	Webforge or equivalent
Compliance:	Tread surface to be in accordance with Book 4 – Access Paths (Surfaces). Grates shall be in accordance with AS1428.1 2009 Clause 7.5(a) and Clause 7.5(b).
Group:	1

MW:08 NOT IN USE

MW:09 NOT IN USE

MW:10 Safety Stair Nosing

Used in stations: **MOR | NOR-| WHT | MAL | ELL**

Material:	Aluminium ribbed safety stair nosing
Size:	50mm
Finish:	Anodized, with 4 carborundum strips and safety yellow strip, R13 anti-slip rating
Product:	ProStep 5 or equivalent
Manufacturer:	CTA Australia or equivalent
Compliance:	Configuration of the steps to comply with AS1428.2 1992 Clause 13.2 and Figure 8.
Group:	1

MW:11 U-Rail (Hitching / bump rail)

Used in stations: **MOR | NOR-| WHT | MAL | ELL**

Material:	Galvanised pipe bump rail fully welded to steel base plate. (Bolt fix to concrete slab or local footing to structural engineer's detail)
Size:	50mm Ø Pipe 150mm Ø x 6 circular base plate Length varies – refer to drawings
Finish:	HD Galv with paint finish PA:23

Schedule

PV

Paving

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00034

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP – RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of works

Requirement: The works described in this Schedule include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all painting of all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including but not limited to the following worksection(s):

– *0276 Paving – sand bed.*

References

This schedule is to be read in conjunction with:

– the trade specific requirements of the Section J1 Fabric Report including all appendices and referenced supplementary documents

– - the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents.

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Bedding mortar

Mix proportion (cement:sand): Select from the range 1:3 to 1:6 to obtain satisfactory adhesion. Provide minimum water.

Mixing: To AS 3958.1 clause 2.15.

Gauging: Site gauged by volume.

Bedding sand grading table

Sieve aperture	Percentage passing (by mass) %
9.52 mm	100

Sieve aperture	Percentage passing (by mass) %
4.75 mm	95 – 100
2.36 mm	80 – 100
1.18 mm	50 – 85
600 µm	25 – 60
300 µm	10 – 30
150 µm	5 – 15
75 µm	0 – 10

Joint filling sand grading table

Sieve Aperture	Percentage passing %
2.36 MM	100
1.18 MM	90 – 100
600 µM	60 – 90
300 µM	30 – 60
150 µM	15 – 30
75 µm	5 – 10

Paving surface level tolerances table

Item	Level tolerance	
	Absolute	Relative
Vehicular pavements	± 5 mm	5 mm
Pedestrian pavements	± 10 mm	10 mm

Grout

Portland cement-based grout: Mix with fine sand. Provide minimum water to achieve workability. Mix proportion (cement: sand): 1:3.

02 SCHEDULE

PV:01 Clay Pavers

Location: Platform and Inactive Platform

Used in stations: **MOR | NOR** ~~|-WHT~~ **| MAL | ELL**

Material: Solid clay segmented paver in Herringbone Configuration lay on 1:6 cement/sand screed

Size: 230 x 114 x 60

Finish: Kiln 9 (grain to run length of face). No sealer.

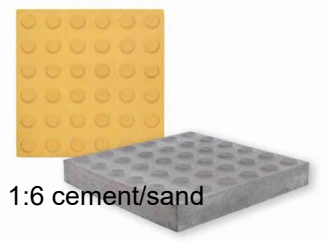
Product: Heavy duty 60 or equivalent

Manufacturer: Midland Brick or equivalent

Colour: Red trafficable type

Slip rating: Slip resistant CoF > 0.4 wet

PV:02 Safety Tactile TGSI Pavers- Warning



Type 1: Concrete Pavers

Used in stations: **MOR | NOR-| WHT | MAL | ELL**

Location: Platform, Inactive Platform, Bus Interchange

Material: Warning integrated TGSI concrete paver lay on 1:6 cement/sand screed

Description: Pavers with Chamfered buttons to full width of the continuous accessible path of travel as indicated in drawings. Top surface of TGSI is to be 4-5mm above finished floor level. TGSI's shall be set back 300mm from the stair or ramp face and extend 600mm. Finish is to provide a minimum contrast as specified in AS1428.4.1 2009. TSGIs shall meet the specific design requirements of AS1428.4.1 2009 for profile and luminance contrast, and installed to ensure a traversable, slip resistance surface, with no likelihood that the edges will lift.

Compressive Strength: 40MPa

Size: 400mm x 400mm x 60mm or 300mm x 300mm x 60mm refer to drawings.

Finish: Non Slip engineered pre-cast concrete paver. No sealer required.

Manufacturer: Urbanstone or equivalent

Product: UOLYGO336DOT or equivalent

Colour: Olympic Gold

Slip rating: Non-Slip, P5 rating to AS3661.1

PV:03 Safety Yellow Edge Paving- Platform Edge Conditions

Location:	Platform level
Used in stations:	**MOR | NOR-| WHT | MAL | ELL**
Material:	Engineered high strength concrete cross- hatch paver with finish to provide a minimum contrast as specified in AS1428.4.1 2009. TSGIs shall meet the specific design requirements of AS1428.4.1 2009 for profile and luminance contrast, and installed to ensure a traversable, slip resistance surface, with no likelihood that the edges will lift. Do not cut through the buttons of hazard tactile pavers – only cut between buttons. Compressive Strength: 40MPa
Size:	400 x 100 x 60mm
Finish:	Non Slip engineered pre-cast concrete paver. No Sealer required
Manufacturer:	Urbanstone or equivalent
Product code:	UOLYGOQDC416 or equivalent
Colour:	Olympic Gold
Slip rating:	Non-Slip, P5 rating to AS3661.1

PV:04 Safety Tactile TGSI Pavers - Directional

Location:	Platform level
Type 1:	Concrete Pavers
Used in stations:	**MOR | NOR-| WHT | MAL | ELL**
Location:	Platform, Inactive Platform, Bus Interchange
Material:	Warning integrated TGSI concrete paver lay on 1:6 cement/sand screed
Description:	Pavers with Chamfered buttons to full width of the continuous accessible path of travel as per drawings. Top surface of TGSI is to be 4-5mm above finished floor level. TGSI's shall be set back 300mm from the stair or ramp face and extend 600mm. Finish is to provide a minimum contrast as specified in AS1428.4.1 2009. TSGIs shall meet the specific design requirements of AS1428.4.1 2009 for profile and luminance contrast, and installed to ensure a traversable, slip resistance surface, with no likelihood that the edges will lift. Abut cut edges of tactile directional pavers to ensure cut edge of pavers do not create a trip hazard Compressive Strength: 40MPa
Size:	400mm x 400mm x 80mm or 300mm x 300mm x 60mm.
Finish:	Non Slip engineered pre-cast concrete paver
Manufacturer:	Urbanstone or equivalent
Product:	UOLYGO336SLOT or equivalent
Colour:	Olympic Gold
Slip rating:	Non-Slip, P5 rating to AS3661.1

Schedule

RO

Roofing

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00036

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP – RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Requirement: The works include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all roof cladding inclusive of:

– roofing, accessories, fastenings, flashings, linings, capping and the like;
– roof vapour barriers, insulation and wire mesh support;
– roof penetrations and their sealing;
– roof plumbing and drainage, including eaves and box gutters, sumps, outlets and overflows, rainwater heads, downpipes and spreaders, connection to the rainwater disposal system; and
– all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in **cross reference**.

Cross reference

This schedule is to be read in conjunction with the Specification including the following worksection(s):

– *0411 Waterproofing – external and tanking*
– *0423 Roofing - profiled sheet metal.*

References

This schedule is to be read in conjunction with:

– the Structural Engineer's documents.
– the trade specific requirements if applicable of the **Acoustic Report** including all appendices and referenced supplementary documents
– the trade specific requirements of the **Section J1 Fabric Report** including all appendices and referenced supplementary documents
– the trade specific requirements if applicable of the **Bushfire Management Report** including all appendices and referenced supplementary documents

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory
– Warranty period

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Performance

General: Unless specifically scheduled otherwise partitions are not required to achieve any particular:

Acoustic performance,

Thermal performance

Acoustic performance requirements
General: The acoustic performance values specified in the Schedule are the minimum in-situ requirements.

Testing: Acoustic performance is subject to site testing to ensure compliance.

Thermal performance requirements
General: The thermal performance values specified in the Schedule are the minimum in-situ requirements.

Validation: Thermal performance is subject to site validation to ensure compliance.

Installation
General: The installation of all proprietary product, system and associated accessories is to be in strict accordance with the manufacturer's written directions.

Compliance: Compliance with the manufacturer's requirements is to be verified by inspection of the work in accordance with a regimen mandated by the manufacturer.

Pipe penetrations
Single pipe: Dektite Premium.

Retrofit pipe: Dektite Combo.

Roof Drainage

Any collected roof water to meet AS/NZS 3500.3.

Bushfire performance requirements
Materials and sealing/detailing of roofing and all associated accessories to comply with Bushfire Management Plan and specific BAL rating requirements for individual stations.

02 COLOUR SELECTIONS LEGEND

n/a

03 SCHEDULE

RO:01 Roof Sheeting - Standard

Used in stations: **MOR** |~~NOR~~| **WHT** | **MAL** | **ELL**

Location: Station Building - Main Roof

Performance: Thermal R-Value to ESD Engineer's requirements.

Roof sheeting:
- Manufacturer: Lysaght or equivalent
- Profile: **KlipLok 700** or equivalent
- Material: Steel.
- Thickness: 0.48mm BMT.
- Finish: Colorbond.
- Colour: Nom. Basalt

Fixing: Concealed fixing clips to Manufacturer's requirements.
To meet ULS design wind pressure.

Insulation: IN:01 Refer to Insulation Schedule.
With Safebridge HP roof insulation system

Pitch: Refer to drawings. Not to exceed Manufacturer's **1°** minimum slope requirement.

Safety mesh: Galvanised steel mesh to AS/NZS 4389

Parapet lining:
- Manufacturer: Lysaght
- Profile: PanelRib.
- Material: Steel.
- Thickness: 0.42mm BMT.
- Finish: Colorbond.

Cappings:
- Generally: All capping materials as;
- Material: Steel sheet.
- Thickness: 0.80mm BMT.
- Finish: Colorbond
- Parapet cap: Profile: 4 break to detail.
- Colour: To match roof sheeting

Flashings:
- Generally: All capping materials as:
- Material: Steel sheet.
- Thickness: 0.80mm BMT.
- Finish: Visible: Colorbond.
- Colour: To match roof sheeting.
- Concealed: Zincalume.

Downpipes: **RO:07** where exposed.
If concealed – refer to Hydraulic Engineer's documentation for the detailed requirements.

RO:02 Profiled Aluminium Roof Edge Cladding

Used in stations: **MOR** |~~NOR~~| **WHT** | **MAL** | **ELL**

Material: Precoated solid aluminium cladding

Thickness: 3mm thk

Fixing: Mechanical cassette fixing to tophats on steel sub framing

Finish: PVDF Fluoropolymer coating

Colour:	Charcoal
Product:	Mondoclad or equivalent
Manufacturer:	HVG Facades or equivalent

RO:03 Gutters

Used in stations:	**MOR | NOR | WHT | MAL | ELL**
Material:	Colorbond steel
Thickness:	To manufacturer's requirements for trafficability
Fixing:	Supported on metal gutter boards and straps, with allowance for trafficability
Finish:	Colorbond Ultra
Insulation:	Provide anti-drumming membrane
Guards:	Provide steel mesh gutter guard to all sumps, gutters and valley to comply with BAL rating requirements

RO:04 ~~Rainwater Downpipe Shrouds~~ No longer in Use

RO:05 Roof Sheeting- Standard

Used in stations:	**MOR | NOR | WHT | MAL | ELL**
Performance:	Thermal R-Value to ESD Engineer's requirements.
Roof sheeting:	Manufacturer: Lysaght or equivalent Profile: **KlipLok 700** or equivalent Material: Steel. Thickness: 0.48mm BMT. Finish: Colorbond. Colour: Surfmist
Fixing:	Self-tapping fasteners with sealing washers to Manufacturer's requirements. To meet ULS design wind pressure.
Insulation:	IN:01 / IN:02 - Refer to *IN - Insulation Schedule*.
Pitch:	Refer to drawings. Not to exceed Manufacturer's **2°** minimum slope requirement.
Safety mesh:	Galvanised steel mesh to AS/NZS 4389
Parapet lining:	Manufacturer: Lysaght Profile: PanelRib. Material: Steel. Thickness: 0.42mm BMT. Finish: Colorbond.
Cappings:	Generally: All capping materials as; Material: Steel sheet. Thickness: 0.80mm BMT. Finish: Colorbond Parapet cap: Profile: 4 break tos detail. Colour: To match roof sheeting
Flashings:	Generally: All capping materials as:

Material: Steel sheet.
Thickness: 0.80mm BMT.
Finish: Visible: Colorbond.
Colour: To match roof sheeting.
Concealed: Zincalume.

Downpipes: **RO:07** where exposed.
If concealed – refer to Hydraulic Engineer's documentation for the detailed requirements.

RO:06 Profiled Colorbond Roof Edge Capping

Used in stations: **MOR | NOR | WHT | MAL | ELL**

Material: Colorbond steel flashing

Thickness: 0.8mm BMT

Fixing: Fixed to tophats on steel sub framing

Finish: Colorbond

Colour: To match roofing

RO:07 Stainless Steel Downpipe

Used in stations: **MOR | NOR | WHT | MAL** | **ELL**

Manufacturer: Stramit® Round Downpipe or equivalent

Product: Stainless steel round downpipe

Size: a. 100mm dia.

b. 150mm dia.

Fixing: The product and its accessories shall be installed strictly in accordance with the manufacturer's recommendations.

Finish: Satin

Schedule

TL

Tiling

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00041

Revision	Checked	Approved	Date Revised	Status
J	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL – IDD	20/08/2021
B	Issued for Information	WHP - RD	24/09/2021
C	Issued for PTA Review	MAL – IDD NOR – RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for Review	WHP - IDD	24/01/2022
G	Issued for PTA Review	MAL – FDD	11/02/2022
H	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
J	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of works

The works include but are not limited to the provision of all labour, materials, plant and equipment necessary for the supply and complete installation of all floor, wall and other tiling including

– Ceramic
– Porcelain

and is inclusive of all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including but not limited to the following worksection(s):

– *0621 Waterproofing – wet areas*
– *0631 Ceramic tiling.*

References

This schedule is to be read in conjunction with:

– the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
– ESD compliance
– WELL compliance
– Evidence of compliance with the ESD requirements of the documented products
– Samples.
– Essential technical information, in English.
– Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Bedding mortar

Proportioning: Select proportions from the range 1:3 – 1:4 cement: sand (by volume) to obtain satisfactory adhesion. Provide minimum water.

Tile joint widths

Joint widths: Set out tiles to give uniform joint widths within the following limits:

Floors:

– Dry pressed tiles: 3 mm.
– Extruded tiles: 6 mm.

– Vitrified: 3 to 5 mm.
– Quarry tiles: 6 to 12 mm.
– Chemical resistant epoxy jointed tiling: 5 to 6 mm.
– Large and/or irregular floor tiles: 6 to 12 mm.
– Mounted mosaics: To match mounting pattern.

Walls:

– Dry pressed tile: 1.5 mm.
– Extruded tile: 6 mm.

Slip rating:
PTA have defined that all external surfaces are to achieve a P4 and all internal surfaces are to achieve a P3 in a Wet Pendulum Test as stipulated in Table 3B of Standards Australia Handbook - Guide to the specification and testing of slip resistance of pedestrian surfaces

Fire Hazard Properties

Minimum standard required to ensure fire load is limited:

Floor Coverings / Linings: Where no sprinklers are installed, a maximum smoke developed rate of 750 percent minutes, and critical radiant flux not less than 2.2kW/m2

02 COLOUR SELECTIONS LEGEND

Colour selections and annotation

General: Where colour variants are specified they are annotated (on the drawings) by appended the colour variant identifier as a suffix to the building assembly codes. (e.g. **TL:01b** indicates Tiling system **TL:01** in colour variant "**b**").

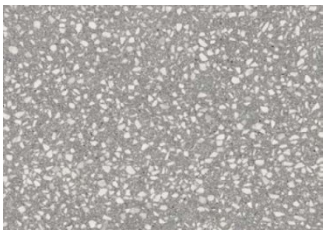
Colour selections

a. N/A
b. N/A
c. N/A

03 SCHEDULE

Vitrified Floor Tiles – Large Grains

TL:01



Location:	Concourse level- fully enclosed areas
Used in stations:	**MOR | NOR-|** ~~WHT~~ **| MAL | ELL**
Supplier:	METZ Tile
Product:	Macinare
Product code:	REMJP841
Colour:	Dark Medium
Size:	600x600mm
Finish:	Nanogrip
Slip Rating:	P4

Vitrified Floor Tile

TL:02

Location:	Public and staff bathrooms
Used in stations:	**MOR | NOR | WHT | MAL | ELL**
Supplier:	METZ Tile
Product:	Stradale
Product code:	REMNF877
Colour:	Silver
Size:	300 x 300mm
Finish:	Microgrip P5
Slip Rating:	P5

TL:03

Vitrified Wall Tile

Location:	Public & Staff Toilets
Used in stations:	**MOR |-NOR | WHT | MAL | ELL**
Supplier:	METZ Tile
Product:	Spettro
Product code:	QASMA602G
Colour:	Talco
Size:	300 x 600mm
Note:	Wall tiles to align with floor tile, and installed in vertical format. Refer to internal elevations.

Safety Tactile Indicator Tile - Hazard

TL:04

Location: Concourse level

Used in stations: **MOR | NOR |** ~~WHT~~ **| MAL | ELL**

Supplier: METZ Tile

Product: Metz FV Stop/ Hazard

Code: TST422

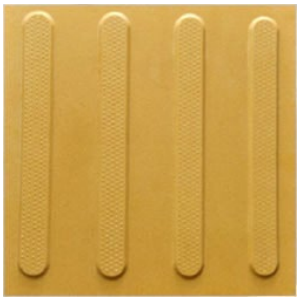
Colour: Yellow

Size: 300 x 300 x 10mm

Slip Rating: P5

Do not cut through the buttons of hazard tactile tiles – only cut between buttons.

Safety Tactile Indicator Tile – Directional



TL:05

Location: Concourse level

Used in stations: **MOR | NOR |** ~~WHT~~ **| MAL | ELL**

Supplier: METZ Tile

Product: Metz FV Go/ Directional

Code: TST444

Colour: Yellow

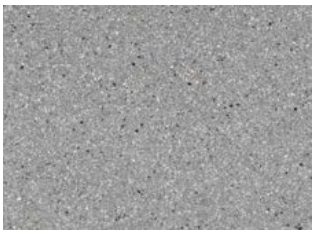
Size: 300 x 300 x 9mm

Slip Rating: P5

Abut cut edges of tactile directional tiles to ensure cut edge of pavers do not create a trip hazard

TL:06

Vitrified Floor Tiles – Small Grains



Location: Concourse level- fully enclosed areas

Used in stations: **MOR |**~~NOR | WHT~~ **| MAL |** ~~ELL~~

Supplier: METZ Tile

Product: Macinare

Product code: REMJP922

Colour: Dark Small

Size: 600x600mm

Finish: Nanogrip

Slip Rating: P4

Tile Skirting

Used in stations: **MOR | NOR-| WHT | MAL | ELL**

Supplier: METZ Tile

Product: Stradale

Product code: REC343C

Colour: Silver

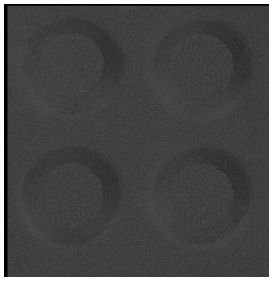
TL:07

Size: 300x100mm

Finish: Nanogrip

Slip Rating: P4

Safety Tactile Indicator Tile - Hazard



Location: Concourse level

Used in stations: ~~MOR | NOR |~~ **WHT |** ~~MAL | ELL~~

TL:08

Supplier: METZ Tile

Product: Metz FV Stop/ Hazard

Code: TST422

Colour: Black

Size: 300 x 300 x 10mm

Slip Rating: P5

Do not cut through the buttons of hazard tactile tiles – only cut between buttons.

TL:09

Safety Tactile Indicator Tile – Directional

Location: Concourse level

Used in stations: ~~MOR |~~ **|** ~~NOR |~~ **WHT** ~~| MAL | ELL~~

Supplier: METZ Tile

Product: Metz FV Go/ Directional

Code: TST444

Colour: Black

Size: 300 x 300 x 9mm

Slip Rating: P5

Abut cut edges of tactile directional tiles to ensure cut edge of pavers do not create a trip hazard

Vitrified Floor Tiles – Small Grains

TL:10

Location:	Concourse and platform levels
Used in stations:	~~MOR~~ | ~~NOR~~ | **WHT** | ~~MAL | ELL~~
Supplier:	METZ Tile r
Product:	Stradele
Colour:	Silver
Size:	600x600mm
Finish:	Nanogrip
Slip Rating:	P4

TGSI Yellow Warning Strip

TL:11

Location:	Platform level
Used in stations:	~~MOR | NOR~~ | **WHT** | ~~MAL | ELL~~
Supplier:	METZ Tile
Product:	Metz Yellow Warning Strip
Code:	TBC
Colour:	Yellow
Size:	300 x 100 x 9mm
Slip Rating:	P5

Specification

WD

Windows

Project Number	Project Name
160729	Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00044

Revision	Checked	Approved	Date Revised	Status
H	CT	MA	25/02/2022	Issued for PTA Review

Recent revision history

Rev	Description	Status	Date
A	Issued for Information	ELL - IDD	20/08/2021
B	Issued for Information	WHP - RD	24/09/2021
C	Issued for PTA Review	MAL - IDD NOR - RD	04/10/2021
D	Issued for Review	ELL – FDD	12/11/2021
E	Issued for PTA Review	MAL – FDD	17/12/2021
F	Issued for PTA Review	MAL – FDD	11/02/2022
G	Issued for Construction Issued for PTA Review	ELL – IFC NOR - IDD	21/02/2022
H	Issued for PTA Review	WHP – FDD MOR – RD	25/02/2022

Table of Contents

01 GENERAL

Scope of works

The works include but are not limited to the provision of all labour, materials, plant and equipment necessary for the design, engineering, manufacture supply and complete installation of all windows including:

- glazing, hardware, and associated screens, shutters, integral blinds, louvres, grilles and the like,
- doors, door frames and door hardware where it is part of a window system;
- sub-heads, sub-sills, glass, glazing, angle trims, beads, lugs, flashings, sealants, gaskets, coverplates, fixings, frames, hardware and the like; and
- installation and fixings, flashing, sealants, chaulking, weather stripping and the like, necessary for the satisfactory functioning of the whole;
- penetrations through the windows for exhaust fans, drenches and the like; and
- all necessary accessories required to complete the work.

Precedence

Worksections: The requirements of this Schedule override conflicting requirements of other worksections of the specification including but not limited to those listed in cross reference.

Cross reference

This schedule is to be read in conjunction with the Specification including but not limited to the following worksection(s):

- *0451 Windows and glazed doors*
- *0457 External screens.*

References

This schedule is to be read in conjunction with:

- the trade specific requirements if applicable of the Acoustic Report including all appendices and referenced supplementary documents
- the trade specific requirements of the Section J1 Fabric Report including all appendices and referenced supplementary documents
- the trade requirements of the Green Star specification MEL-MLCX-SU-SPC-00001 including score card and all appendices and referenced supplementary documents

Disclaimer: The design intent shown in the drawings, specification, and schedules, indicates solutions which incorporate compliance with the consultant's documents, but which is not necessarily complete nor entirely compliant at any time.

Substitutions

Alternatives: If alternatives to the documented products, methods or systems are proposed, submit sufficient information to permit evaluation of the proposed alternatives, including but not limited to:

- Evidence that the performance is equal to or greater than that specified.
- Evidence of conformity to all cited standards
- Evidence of compliance with all relevant statutory requirements, benchmarks, and performance criteria including but not limited to:
- Fire resistance
- Thermal performance
- Acoustic performance
- WaterMark Certification; and
- CodeMark Certification
- ESD compliance
- WELL compliance
- Evidence of compliance with the ESD requirements of the documented products
- Samples.
- Essential technical information, in English.
- Test Reports prepared by a registered NATA (National Association of Testing Authorities, Australia) laboratory

Substitutions without evidence: Substitutions made without notice and or without evaluation by the Architect shall be deemed to be non-compliant with the requirements of the Contract

Glazing
Requirement: If a thickness is shown in the schedules, on the drawings or in a referenced report, and AS 1288 requires:

– a thicker glass, the AS 1288 thickness shall be used.
– a thinner glass, the thickness is shown in the Building Assembly, on the drawings or in a referenced report shall be used.

Windows and glazed doors
General: Install windows and glazed doors frames as follows:

Plumb, level, straight and true within acceptable building tolerances.

Fixed or anchored to the building structure in conformance with the wind action loading requirements.

Isolated from any building loads, including loads caused by structural deflection or shortening.

Allow for thermal movement.

Weatherproofing
Flashing and weatherings: Install flashings, weather bars, drips, storm moulds, caulking and pointing so that water is prevented from penetrating the building between the window frame and the building structure under the prevailing service conditions, including normal structural movement of the building.

Fixing
Fasteners and fastener spacing: Conform to the recommendations of the manufacturer.

Fasteners: Conceal fasteners.

Packing: Pack behind fixing points with durable full width packing.

Prepared masonry openings: If fixing of timber windows to prepared anchorages needs fastening from the frame face, sink the fastener heads below the surface and fill the sinking flush with a material compatible with the surface finish.

Joints
General: Make accurately fitted tight joints so that neither fasteners nor fixing devices such as pins, screws, adhesives and pressure indentations are visible on exposed surfaces.

Machining: Cut edges, drilled holes, riveted joints and flat sheets shall be clean, neat, free from butts and indentations. Remove sharp edges without excessive radiusing, fit mitred joints accurately to a fine hairline.

Sealants: If priming is recommended, prime surfaces in contact with jointing materials. If frames are powder coated, apply a neutral cure sealant.

Repair of finish
Polyester or fluoropolymer coatings: Contact supplier for approval to apply touch up products, otherwise replace damaged material.

Trim
General: Provide mouldings, architraves, reveal linings, and other internal trim using materials and finishes matching the window frames. Install to make neat and clean junctions between frames and the adjoining building surfaces.

02 SCHEDULE

WD:01 Aluminium Framed – Single Fixed Glazed Windows

Used in stations:	**MOR** |~~NOR~~ | **WHT** | MAL | ELL
Material:	Extruded aluminium framing
Size:	Refer to drawing – *Window Types and Details*
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	**GL:01 –** Refer to *GL: Glass Schedule*
Product:	419 Flushline 150mmx50mm Frame (Single Glazed) or equivalent
Manufacturer:	Capral or equivalent
Acoustic:	In compliance with Acoustic Engineer's requirements
ESD:	In compliance with ESD Engineer's requirements for NCC Section J 2019.

WD:02 Aluminium Framed – Fixed Glazed Window System (with Framed Swing Doors)

Used in stations:	**MOR** |~~NOR~~ | **WHT** | MAL | ELL
Description:	Full height 150mm nom. aluminium framed partition fixed to steel structural columns and beams, with matching transoms incorporating glazed fixed windows and door.
Material:	Extruded aluminium framing
Size:	Refer to drawing – *Window Types and Details*
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	**GL:01 –** Refer to *GL: Glass Schedule*
Product:	419 Flushline 150mmx50mm Frame (Single Glazed) or equivalent
Manufacturer:	Capral or equivalent
Acoustic:	In compliance with Acoustic Engineer's requirements
ESD:	In compliance with ESD Engineer's requirements for NCC Section J 2019.

WD:03 Steel Framed – Fixed Single Glazed Weather Protection Screens

Used in stations:	**MOR** |~~NOR~~ | **WHT** | MAL | ELL
Material:	Steel RHS framing with glazed screen infill
Size:	Refer to drawing – *Window Types and Details*
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	**GL:03 –** Refer to *GL: Glass Schedule*
Solid Panel:	**CD:02 –** Refer to *CD: Cladding Schedule*