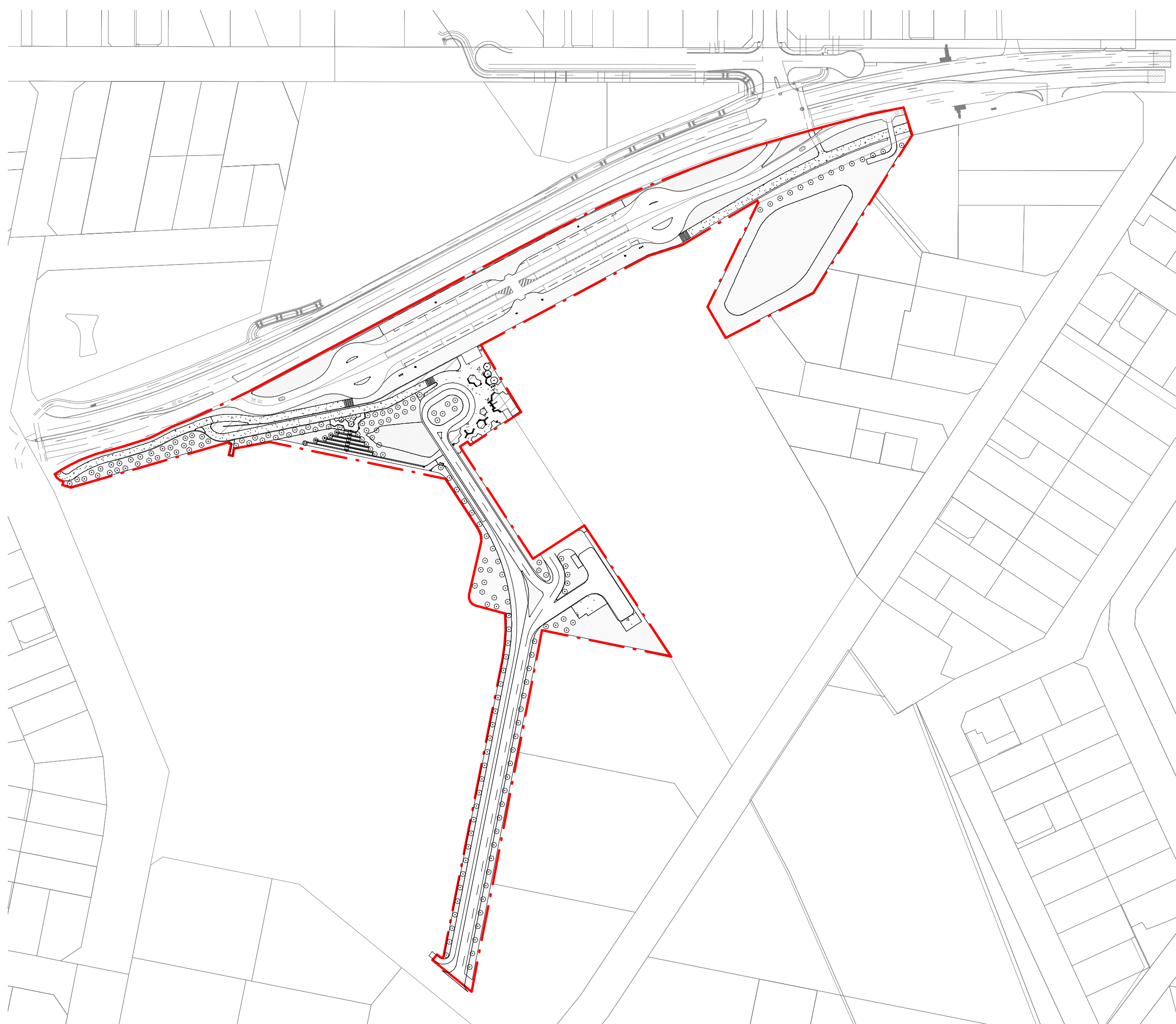


MORLEY-ELLENBROOK LINE

MORLEY PRECINCT LANDSCAPE WORKS

Tonkin Highway, Morley, WA 6062



SHEET SCHEDULE		
Sheet Number	Sheet Name	Rev.
25-A-285-LA0001	COVER SHEET	A
25-A-285-LA0002	LEGEND & NOTES	A
25-A-285-LA0006	SCHEDULES	A
25-A-285-LA0010	LANDSCAPE SITE PLAN	A
25-A-285-LA0065	GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 1	A
25-A-285-LA0066	GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 2	A
25-A-285-LA0067	GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 3	A
25-A-285-LA0068	GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 4	A
25-A-285-LA0069	GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 5	A


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REFERENCE DESIGN

A	29/03/22	Issue for Development Approval	TCL	EL	SL	SL
A	15/03/22	Issue for Development Approval	TCL	EL	SL	SL
A	25/02/22	Issue for RD	TCL	EL	SL	SL
A03	11/02/22	Issue for RD	TCL	EL	SL	SL
A02	20/01/22	Issue for IDC	TCL	EL	SL	SL
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REFERENCES		SCALE	DESIGNED	UDLA & TCL
		1 : 2000 (@ A1)	DRAWN	Enoch Liew
		DATUM	CHECKED	Scott Lang
		HORIZONTAL: PCG2020	APPROVED	Manoj Aravind
		VERTICAL: AHD71	DATE	29/03/22

		MORLEY ELLENBROOK LINE	
		MORLEY STATION - LANDSCAPING	
		COVER SHEET	
PTA Drawing No: 25-A-285-LA0001		Rev:	A

PLANTING SCHEDULE

GARDEN BEDS: G1-00A, G2-00A, G3-00A			
SYM	BOTANICAL NAME	POT SIZE	TOTAL
Abd	Anigozanthos 'Bush Diamond'	200mm	TBA
Abf	Anigozanthos 'Bush Fire'	200mm	TBA
Abg	Anigozanthos 'Bush Gold'	200mm	TBA
Abp	Anigozanthos 'Bush Pearl'	200mm	TBA
Abv	Anigozanthos 'Bush Volcano'	200mm	TBA
Ala	Acacia lasiocarpa 'Glow Wattle'	200mm	TBA
All	Anigozanthos Landscape Lilac'	200mm	TBA
Ama	Anigozanthos manglesii 'Royal Cheer'	200mm	TBA
Aor	Anigozanthos 'Orange Cross'	200mm	TBA
Asa	Acacia saligna 'Springtime Cascade'	200mm	TBA
Avi	Anigozanthos viridis 'Green Dragon'	200mm	TBA
Bas	Banksia ashbyii Dwarf Form	200mm	TBA
Bbl	Banksia blechnifolia	200mm	TBA
Bni	Banksia nivea	200mm	TBA
Bpe	Banksia petiolaris	200mm	TBA
Bre	Banksia repens	200mm	TBA
Cap	Chrysocephalum apiculatum 'Desert Flame'	200mm	TBA
Cca	Conostylis candicans	200mm	TBA
Ccr	Conospermum crassinervium	200mm	TBA
Cse	Conostylis setosa	200mm	TBA
Cvi	Carpobrotus virescens 'Aussie Rambler'	200mm	TBA
Dcl	Dianella 'Clarity Blue'	200mm	TBA
Dol	Darwinia oldfieldii	200mm	TBA
Dpi	Darwinia pinifolia	200mm	TBA
Ebl	Eremophila 'Blue Horizon'	200mm	TBA
Gwi	Grevillea 'Winter Delight'	200mm	TBA
Hbu	Hakea Burrendong Beauty	200mm	TBA
Hco	Hardenbergia comptoniana	200mm	TBA
Hpu	Hemiandra pungens 'Alba'	200mm	TBA
Hsp	Haemodorum spicatum	200mm	TBA
Kpr	Kennedia prostrata	200mm	TBA
Lbr	Leucophyta brownii 'Silver Nugget'	200mm	TBA
Lca	Lepidosperma calcicola	200mm	TBA
Lev	Lomandra 'Evergreen Baby'	200mm	TBA
Lfl	Lomandra filiformus 'Savanna Blue'	200mm	TBA
Lfo	Lechenaultia formosa	200mm	TBA
Mpa	Myoporum parvifolium 'Fine Green'	200mm	TBA
Mpa	Lomandra filiformus Savanna Blue	200mm	TBA
Pfe	Pimelea ferruginea 'Pink Solitaire'	200mm	TBA
Poc	Patersonia occidentalis	200mm	TBA
Tmu	Thysanotus multiflorus	200mm	TBA
Tre	Templetonia refusa prostrate	200mm	TBA
Vmi	Verticordia mitchelliana	200mm	TBA
		Total	TBA

GARDEN BED: G4-00A, G5-00A			
SYM	BOTANICAL NAME	POT SIZE	TOTAL
Asc	Astartea scoparia	TBA	TBA
Bju	Baumea juncea	TBA	TBA
Bru	Baumea rubignosa	TBA	TBA
Cfa	Carez fascicularis	TBA	TBA
Cgy	Cyperus gymnocaulos	TBA	TBA
Chi	Calothamnus hirsutus	TBA	TBA
Cqu	Calothamnus quadrifidus Little Ripper	TBA	TBA
Cst	Conospermum stoechadis	TBA	TBA
Fno	Ficinia nodosa	TBA	TBA
Gqu	Grevillea quercifolia	TBA	TBA
Hpr	Hakea prostrata	TBA	TBA
Jkr	Juncus kraussii	TBA	TBA
Jsu	Juncus subsecundus	TBA	TBA
Lca	Lepidosperma calcicola	TBA	TBA
Lgl	Lepidosperma gladiatum	TBA	TBA
Lsq	Lepidosperma squamatum	TBA	TBA
Min	Melaleuca incanra	TBA	TBA
Mla	Melaleuca lateritia	TBA	TBA
Mpa	Melaleuca pauciflora	TBA	TBA
Msc	Melaleuca scabra	TBA	TBA
Msc	Meeboldina scariosa	TBA	TBA
Mse	Melaleuca seriata	TBA	TBA
Mty	Melaleuca thymoides	TBA	TBA
		Total	TBA

GARDEN BED: G7-00A			
SYM	BOTANICAL NAME	POT SIZE	TOTAL
Ala	Acacia lasiocarpa Glow Wattle	Tubestock	TBA
Asa	Acacia saligna Springtime Cascade	Tubestock	TBA
Ama	Anigozanthos manglesii	Tubestock	TBA
Bbl	Banksia blechnifolia	Tubestock	TBA
Bni	Banksia nivea	Tubestock	TBA
Bre	Banksia repens	Tubestock	TBA
Cvi	Carpobrotus virescens	Tubestock	TBA
Ccr	Chorizema cordatum	Tubestock	TBA
Cac	Conostylis aculeata	Tubestock	TBA
Cco	Conostylis candicans	Tubestock	TBA
Cse	Conostylis setosa	Tubestock	TBA
Dre	Dianella revoluta	Tubestock	TBA
Ega	Eremophila glabra	Tubestock	TBA
Gqu	Grevillea quercifolia	Tubestock	TBA
Hco	Hardenbergia comptoniana	Tubestock	TBA
Hpu	Hemiandra pungens	Tubestock	TBA
Kco	Kennedia coccinea	Tubestock	TBA
Kpr	Kennedia prostrata	Tubestock	TBA
Mco	Melaleuca conothamnoides	Tubestock	TBA
Mhe	Melaleuca heugelii Prostrate	Tubestock	TBA
Mse	Melaleuca seriata	Tubestock	TBA
Mtr	Melaleuca trichophylla	Tubestock	TBA
Mpa	Myoporum parvifolium Fine Leaf	Tubestock	TBA
Oax	Olearia axilaris Little Smokie	Tubestock	TBA
Poc	Pattersonia occidentalis	Tubestock	TBA
Tmu	Thysanotus multiflorus	Tubestock	TBA
		Total	TBA

TREES			
SYM	BOTANICAL NAME	POT SIZE	TOTAL
	Agonis flexuosa	TBA	TBA
	Banksia attenuata	TBA	TBA
	Banksia grandis	TBA	TBA
	Banksia ilicifolia	TBA	TBA
	Banksia menziesii	TBA	TBA
	Corymbia ficifolia	TBA	TBA
	Eucalyptus caesia Gungurru Gungurru	TBA	TBA
	Eucalyptus erythrocorys	TBA	TBA
	Eucalyptus gomphocephala	TBA	TBA
	Eucalyptus macrocarpa	TBA	TBA
	Eucalyptus rudis	TBA	TBA
	Eucalyptus torquata	TBA	TBA
	Eucalyptus victrix	TBA	TBA
	Eucalyptus wandoo	TBA	TBA
	Hakea petiolaris	TBA	TBA
	Livistona australis	TBA	TBA
	Melaleuca raphiophylla	TBA	TBA
		Total	TBA

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

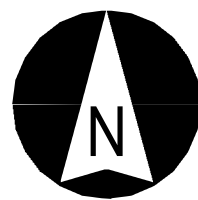
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A	15/03/22	Issue for Development Approval	TCL	EL	SL	SL
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A03	11/02/22	Issue for RD	TCL	EL	SL	SL
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REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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A1		AT ORIGINAL PLOT SIZE				



REFERENCES		SCALE
		(@ A1)
		DATUM
		HORIZONTAL: PCG2020
		VERTICAL: AHD71

DESIGNED	UDLA & TCL	 MORLEY ELLENBROOK LINE
DRAWN	Enoch Liew	
CHECKED	Scott Lang	
APPROVED	Manoj Aravind	
DATE	29/03/22	
PTA Drawing No: 25-A-285-LA0006		Rev: A



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REFERENCE DESIGN

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A02	20/01/22	Issue for IDC	TCL	EL	SL	SL
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		AT ORIGINAL PLOT SIZE				



REFERENCES

SCALE
1 : 1200 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED UDLA & TCL
DRAWN Enoch Liew
CHECKED Scott Lang
APPROVED Manoj Aravind
DATE 29/03/22



MORLEY ELLENBROOK LINE
MORLEY STATION - LANDSCAPING
LANDSCAPE SITE PLAN
PTA Drawing No: 25-A-285-LA0010 Rev: A



Make good existing concrete footpath.

Existing fence to be retained and protected.

Existing Retaining Wall.

Kerb to be extended and made good with existing.

New fence to match existing.

Retaining Wall.
Refer Civil engineer's documentation.

Make good existing lawn.

NOTE:

The alignment and extent of all services and structures associated with the MRWA Tonkin Gap Project (including, but not limited to, Broun Ave bridge walls, footings, anchors, services, membranes, slabs, etc) are subject to the provision of final design and documentation by the Tonkin Gap Alliance. Consequently, tree locations proposed for all interfacing Morley-Ellenbrook Line works are provisional pending review and assessment of the final TGA documentation.

25-A-285-LA0065

1 : 250

PRELIMINARY ONLY

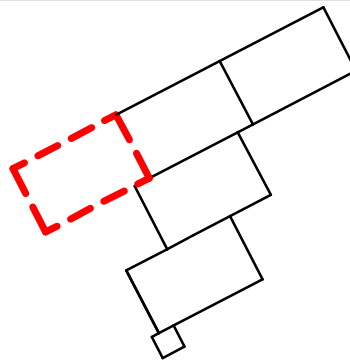
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REFERENCES



SCALE

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DATUM

HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED

UDLA & TCL

DRAWN

Enoch Liew

CHECKED

Scott Lang

APPROVED

Manoj Aravind

DATE

29/03/22



Government of Western Australia
Public Transport Authority

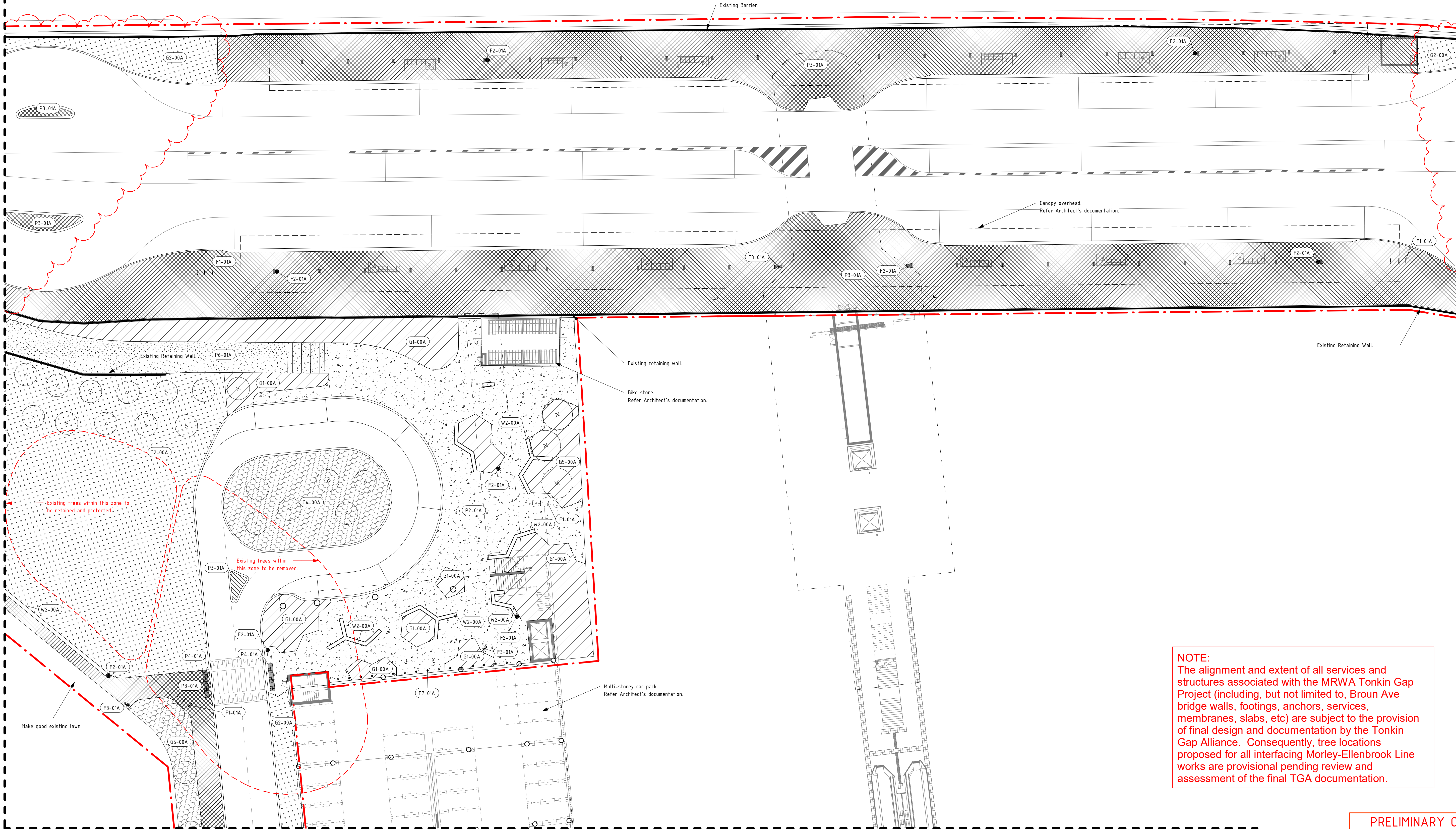
MORLEY ELLENBROOK LINE

MORLEY STATION - LANDSCAPING

GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 1

PTA Drawing No: 25-A-285-LA0065

Rev: A



1 25-A-285-LA0066
1 : 250

25-A-285-LA0068

NOTE:
The alignment and extent of all services and structures associated with the MRWA Tonkin Gap Project (including, but not limited to, Broun Ave bridge walls, footings, anchors, services, membranes, slabs, etc) are subject to the provision of final design and documentation by the Tonkin Gap Alliance. Consequently, tree locations proposed for all interfacing Morley-Ellenbrook Line works are provisional pending review and assessment of the final TGA documentation.

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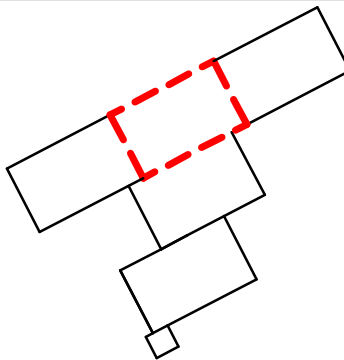
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REFERENCES



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1 : 250 (@ A1)

DATUM
HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED UDLA & TCL
DRAWN Enoch Liew
CHECKED Scott Lang
APPROVED Manoj Aravind
DATE 29/03/22

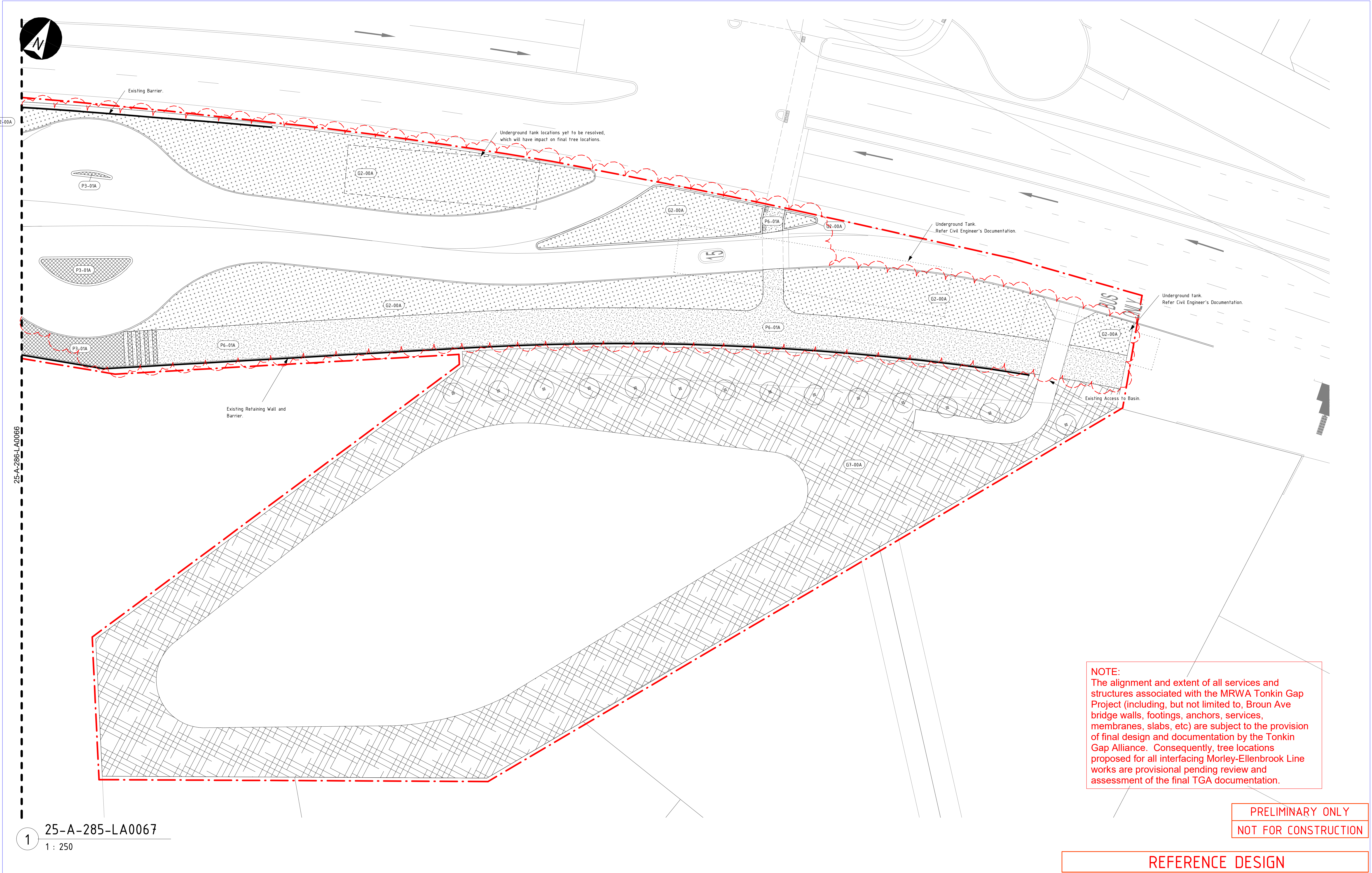
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MORLEY ELLENBROOK LINE


MORLEY STATION - LANDSCAPING
GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 2

PTA Drawing No: 25-A-285-LA0066 Rev: A

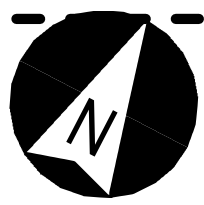


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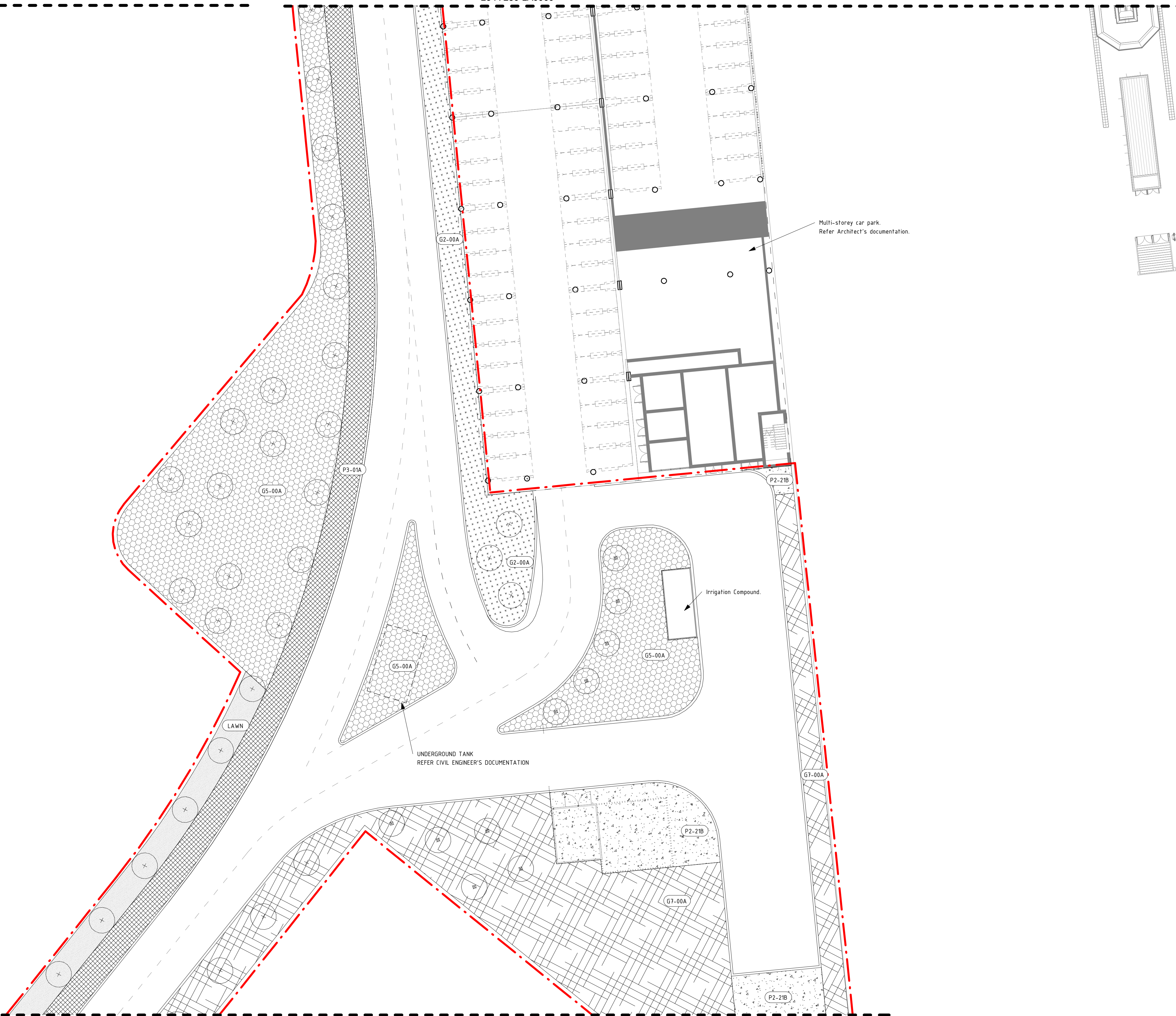
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			DRAWN	Enoch Liew
		CHECKED	Scott Lang	
		APPROVED	Manoj Aravind	
		DATUM		HORIZONTAL: PCG2020
		VERTICAL: AHD71		

REFERENCE DESIGN	
MORLEY ELLENBROOK LINE	
MORLEY STATION - LANDSCAPING GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 3	
PTA Drawing No: 25-A-285-LA0067	Rev: A



25-A-286-LA0065

25-A-286-LA0066



1 25-A-285-LA0068
1 : 250

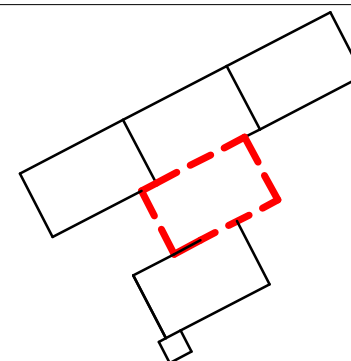
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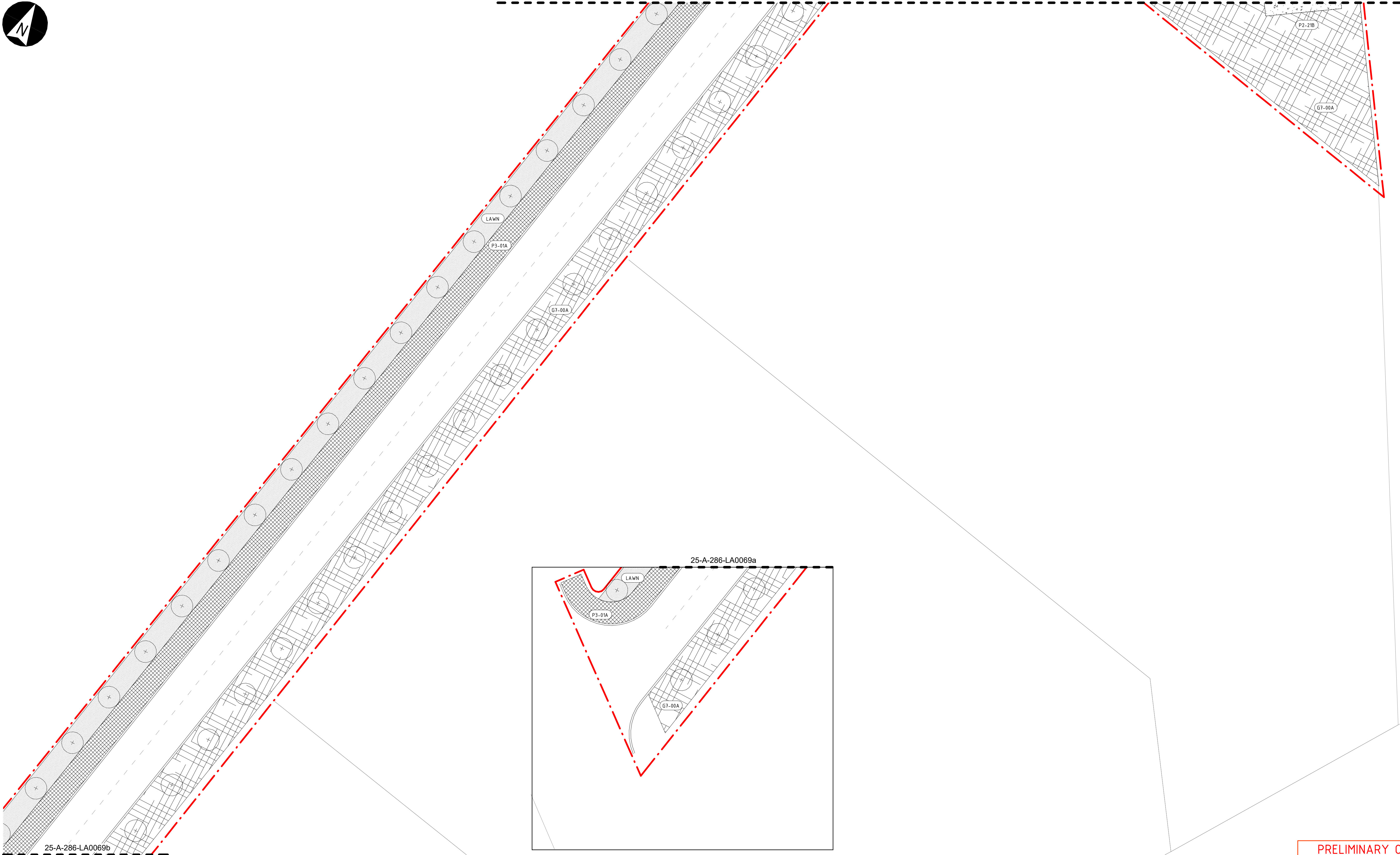


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	VERTICAL:	AHD71
DESIGNED	UDLA & TCL	
DRAWN	Enoch Liew	
CHECKED	Scott Lang	
APPROVED	Manoj Aravind	
DATE	29/03/22	

	MORLEY ELLENBROOK LINE
MORLEY STATION - LANDSCAPING	
GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 4	
PTA Drawing No: 25-A-285-LA0068	Rev: A



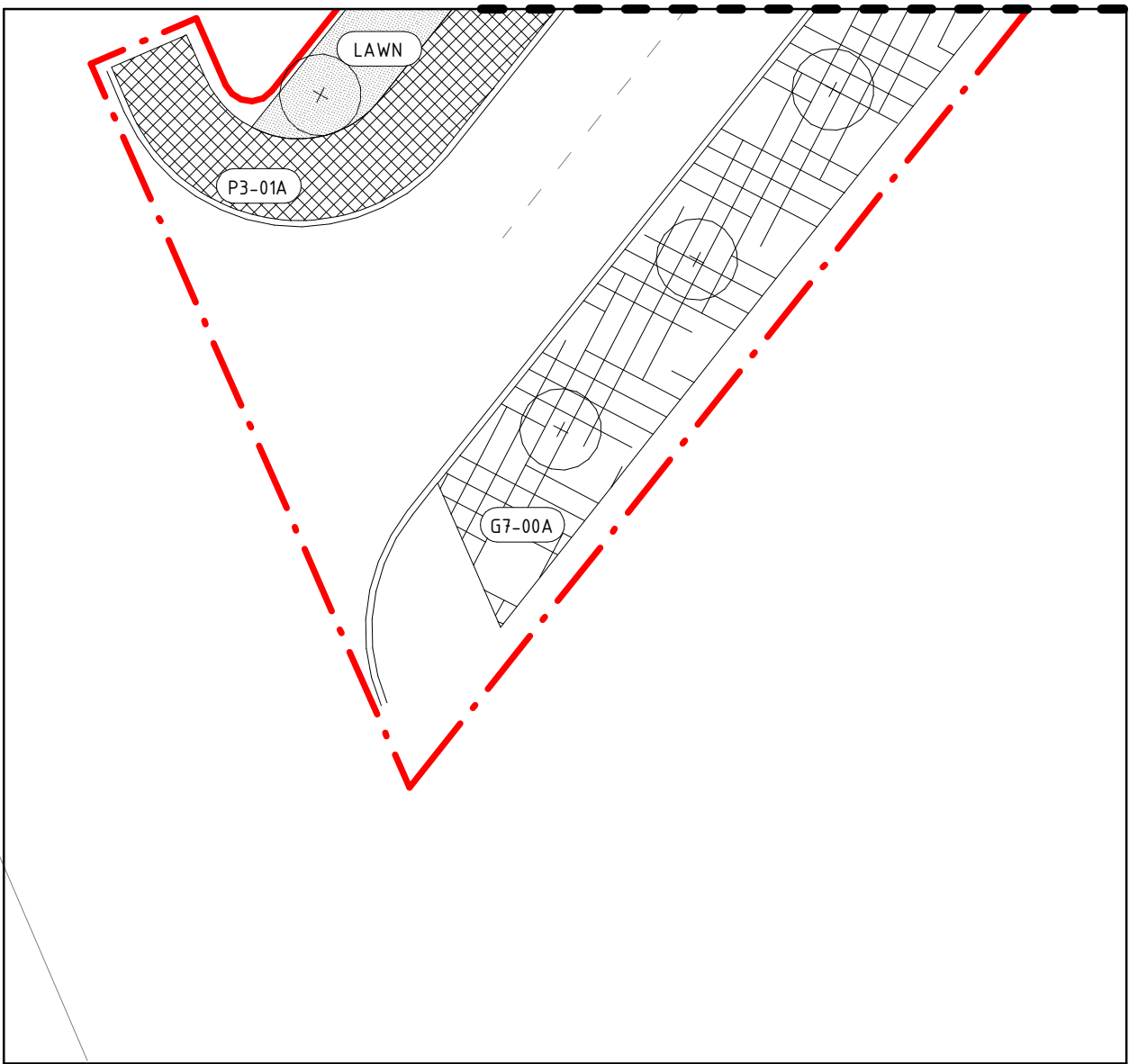
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25-A-286-LA0069b

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25-A-286-LA0069a



2 25-A-285-LA0069b
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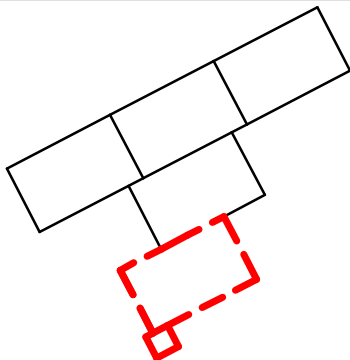
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REFERENCES



SCALE

1 : 250 (@ A1)

DATUM

HORIZONTAL: PCG2020
VERTICAL: AHD71

DESIGNED

UDLA & TCL

DRAWN

Enoch Liew

CHECKED

Scott Lang

APPROVED

Manoj Aravind

DATE

29/03/22



MORLEY ELLENBROOK LINE

MORLEY STATION - LANDSCAPING
GENERAL ARRANGEMENT & FINISHES PLAN - SHEET 5

PTA Drawing No: 25-A-285-LA0069 Rev: A



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
G	CT	MA	25/02/2022

Status
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

AC	Accessory Schedule
AP	Access Panels
CD	Cladding Schedule
CE	Concrete Engineering (Finishes Only) Schedule
CL	Ceiling Schedule
CP	Cubicle Partitions System Schedule
CW	Cabinetwork Schedule
DM	Demolition Schedule
DR	Door Schedule
EQ	Equipment Schedule
FC	Floor Covering Schedule
FM	Fabricated Metalwork Schedule
FN	Loose Furniture Schedule
FP	Fire Protection
GL	Glass Schedule
IN	Insulation Schedule
LV	Louvre Schedule
MA	Masonry Schedule
MW	Metalwork Schedule
PA	Painting Schedule
PD	Partition and Drywall Schedule
PF	Plumbing Fixture Schedule
PV	Paving Schedule
RN	Rendering Schedule
RO	Roofing Schedule
SA	Safety and Access Systems Schedule
SE	Steel Engineering Schedule
SG	Sign Schedule
TL	Tiling Schedule
TP	Topping and Screeds Schedule
TR	Trim Schedule
WD	Windows
WP	Waterproofing Schedule
WT	Window Treatments Schedule



Schedule

CD

Cladding

Project Number

160729

Project Name

Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00013

Revision

H

Checked

CT

Approved

MA

Date Revised

25/02/2022

Status

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

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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 thermally 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.

CD:01 Equitone Cladding SystemUsed 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 <i>IN – Insulation schedule</i>
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 SheetingUsed 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 <i>PA - Paint Schedule</i>
Skirting:	All CD:02 fronting station concourse to have TR:01 Trim Flush with FC Finish

CD:03 FC Infill Panel to ColumnsUsed 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

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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 angles (90°): Proprietary perforated metal Corner Bead (flushed in). Rondo P01 or equal to approval.
- External angles (<>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

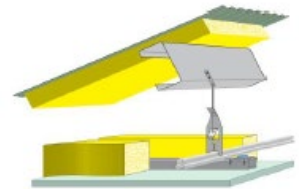
CL:01 Plasterboard Ceiling

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 – <i>Paint Schedule</i>
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 – <i>Paint Schedule</i>
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**

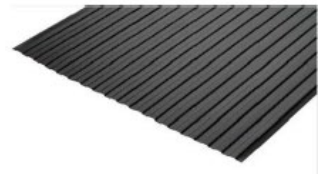
Performance:	The fire rating performance requirements of this assembly is required to achieve FRL 120/120/120 from both sides
Framing:	Proprietary Rondo or similar concealed furring channel suspension system.
Lining:	ABOVE (steel joist) 2 x 16mm Gyprock Fyrchek plasterboard by CSR or similar BELOW (steel 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.

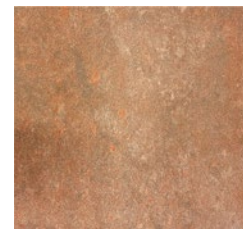
Lining: 1 x 8mm prefinished non combustible fibre cement panels with open
expressed joints with backing strip.

Product: Naturion Material Decors
Finish: Fotesque 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 Fyrcek 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

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G	Issued for Construction Issued for PTA Review	ELL – IFC NOR – IDD	21/02/2022
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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.



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

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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

Used 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

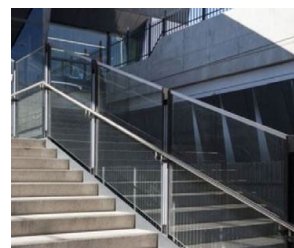
Colour: TBC

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

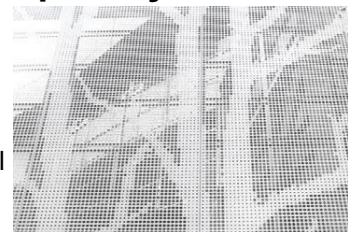
Used in stations: ~~MOR~~ | ~~NOR~~ | ~~WHT~~ | ~~MAL~~ | ~~ELL~~
Description: Custom perforated & solid aluminium panel-
Thickness: 3mm thick
Finish: Powder Coated
Pattern: Nom. 5mm dia perforations (<5mm diameter for safety).
Product: LMD-E 213 WL type 1 (customized) - hook-on and fixed panels
Manufacturer: 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
($<5\text{mm}$ diameter for safety).

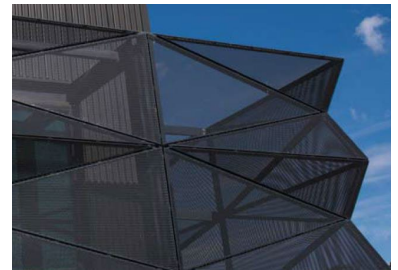
To be flat panels fixed to angled frames to create a 3D effect

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

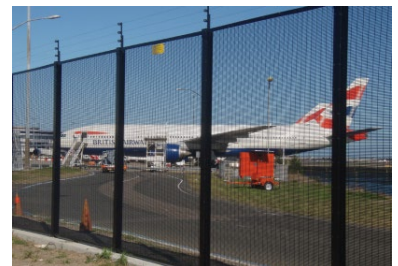
Location: Bike Shelter

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

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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

160729

Project Name

Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00034

Revision

H

Checked

CT

Approved

MA

Date Revised

25/02/2022

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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
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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

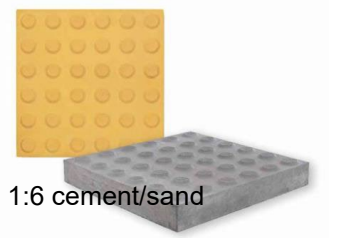
PV:01 Clay Pavers

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:	<p>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.</p> <p>Compressive Strength: 40MPa</p>
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:	<p>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</p> <p>Compressive Strength: 40MPa</p>
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

160729

Project Name

Morley Ellenbrook Line

Document Number

MEL-MLCX-AR-SCH-00036

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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.

RO

Roofing

Page RO-6 of 10



Revision Number:

Revision Date:

H
25/02/2022

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: Zinalume.

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 <i>IN - Insulation Schedule</i> .
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: Zinalume.

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

160729

Project Name

Morley Ellenbrook Line

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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

TL

Tiling

Page TL-6 of 11



Revision Number:

Revision Date:

J

25/02/2022

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

Location: Concourse level- fully enclosed areas

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

Supplier: METZ Tile

Product: Macinare

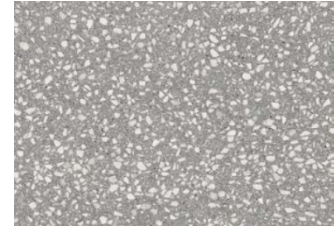
Product code: REMJP841

Colour: Dark Medium

Size: 600x600mm

Finish: Nanogrip

Slip Rating: P4



TL:01

Vitrified Floor Tile

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:02

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.



TL:03

Safety Tactile Indicator Tile - Hazard

Location: Concourse level

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

Supplier: METZ Tile

Product: Metz FV Stop/ Hazard



TL:04

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

Location: Concourse level

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

Supplier: METZ Tile

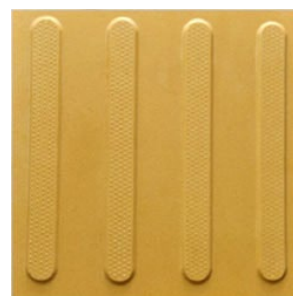
Product: Metz FV Go/ Directional

Code: TST444

Colour: Yellow

Size: 300 x 300 x 9mm

Slip Rating: P5



TL:05

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

Size: 300x100mm

Finish: Nanogrip

Slip Rating: P4

TL:07



Safety Tactile Indicator Tile - Hazard

Location: Concourse level

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

Supplier: METZ Tile

Product: Metz FV Stop/ Hazard

Code: TST422

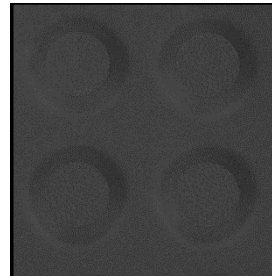
Colour: Black

Size: 300 x 300 x 10mm

Slip Rating: P5

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

TL:08



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



TL:10

Vitrified Floor Tiles – Small Grains

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



TL:11

TGSI Yellow Warning Strip

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

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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 – <i>Window Types and Details</i>
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	GL:01 – Refer to <i>GL: Glass Schedule</i>
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 – <i>Window Types and Details</i>
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	GL:01 – Refer to <i>GL: Glass Schedule</i>
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 – <i>Window Types and Details</i>
Finish:	PA: 09 Refer to PA – Paint Schedule
Glass:	GL:03 – Refer to <i>GL: Glass Schedule</i>
Solid Panel:	CD:02 – Refer to <i>CD: Cladding Schedule</i>