



Attachment 4: Urban Design Overshadowing Assessment

Approved SIZ content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.

NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN OVERSHADOWING ASSESSMENT



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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVALS
06	FOR REVIEW	14.10.2022	E. GRIFFITH
05	FOR REVIEW	12.10.2022	M. KEDDELL
04	FOR REVIEW	01.09.2022	R. MARSH
03	FOR REVIEW	10.08.2022	R. WOOD
02	FOR REVIEW	23.06.2022	R. NAYLOR
01	PUBLIC EXHIBITION	02.05.2022	

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DOT DRAWING No:	Rev:
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM COVER SHEET	
PROJECT CONTRACT:	NELP DRAWING No: NEL-CNT-WMI-2990-UUD-DRG-0400
SUIT. CODE	REVISION: 06

14/10/2022 4:02:03 PM

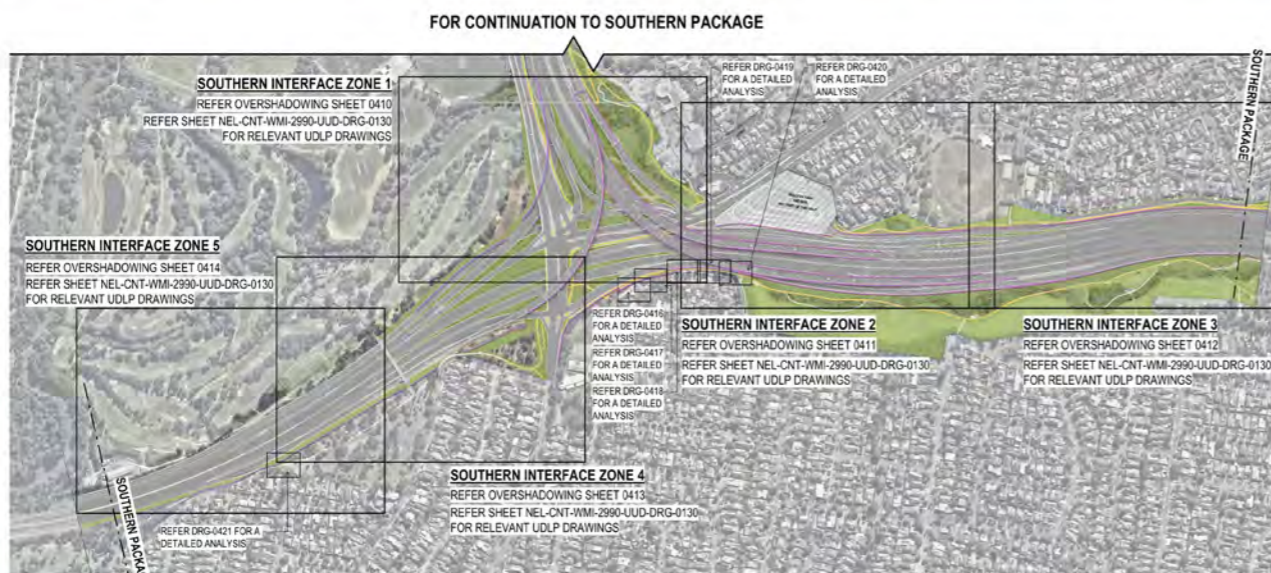
Approved SI2 content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.



NORTHERN PACKAGE SITE PLAN
SCALE 1 : 7000



SOUTHERN PACKAGE SITE PLAN
SCALE 1 : 7000



SOUTHERN INTERFACE SITE PLAN
SCALE 1 : 7000

SHADOW AND OVERLOOKING DIAGRAMS AND ANALYSIS

THE FOLLOWING SHADOW AND OVERLOOKING DIAGRAMS DEMONSTRATE IN-PRINCIPAL COMPLIANCE WITH THE NORTH EAST LINK PROJECT ENVIRONMENTAL MANAGEMENT FRAMEWORK DOCUMENT. THE DIAGRAMS CONSIDER THE FOLLOWING PERFORMANCE REQUIREMENTS AND REGULATIONS:

REQUIREMENT LP4 | REGULATION EMF, EPR LP4
MINIMISE OVERSHADOWING FROM NOISE WALLS AND ELEVATED STRUCTURES AND OVERLOOKING FROM ELEVATED STRUCTURES.

TYPICALLY ELEVATED STRUCTURES WILL CASTING SHADOWS BACK ONTO NEW SITE ELEMENTS OR WITHIN THE PROJECT SITE BOUNDARIES DUE TO A COMBINATION OF NATURAL TOPOGRAPHY, ORIENTATION AND PARTIAL SUBMERSION OF ARCHITECTURAL ELEMENTS. THE MAJORITY OF ELEMENTS ARE LOCATED OUTSIDE OF THE FIFTEEN (15) METRE AREA OF CONSIDERATION FOR OVERLOOKING. DETAIL PLANS HAVE BEEN PROVIDED FOR THE EXCEPTIONS.

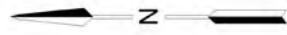
REQUIREMENT LV1 | REGULATION EMF, EPR LV1
DESIGN TO BE IN ACCORDANCE WITH THE URBAN DESIGN STRATEGY.

THE PACKAGES HAVE BEEN DESIGNED GENERALLY IN ACCORDANCE WITH THE URBAN DESIGN STRATEGY, INCLUDING REQUIREMENTS REGARDING SHADOWS AND OVERLOOKING REGULATIONS. A MORE DETAILED ASSESSMENT OF THESE COMPLIANCES IS INDICATED IN THE URBAN DESIGN REPORT.

C:\Users\Documents\NEL-UDLP-Attachment 4 - egz791C.rvt

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01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	14.10.2022	
REV	DESCRIPTION	DATE	APPROVED	APPROVALS	
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				SIZE: A1	
				SCALE: 1 : 7000	
		PROJECT CONTRACT:		NELS DRAWING No.:	
		CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		NEL-CNT-WMI-2990-UUD-DRG-0401	
				SUIT. CODE	
				REVISION	
				06	



WATSONIA PORTAL



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

WATSONIA PORTAL
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

WATSONIA PORTAL
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO NEW SUP TO EAST OF PORTAL

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

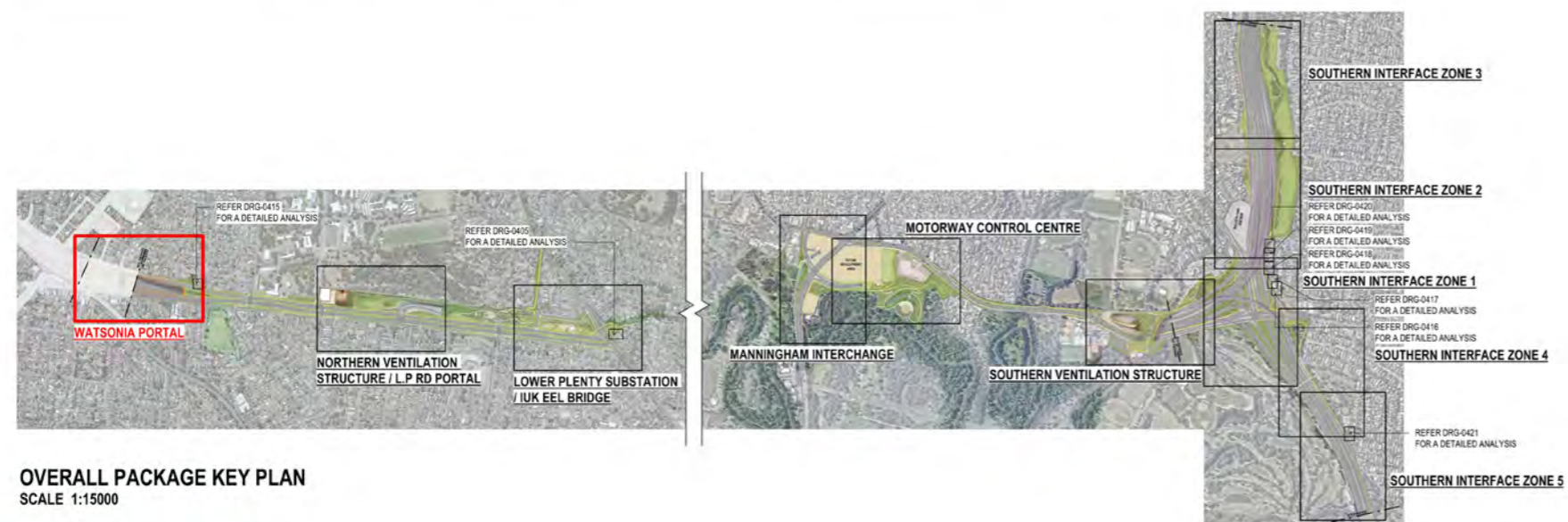


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

WATSONIA PORTAL
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING (APPROX 30%) TO PROPOSED FITNESS PARK TO EAST OF PORTAL

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



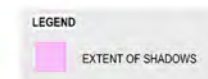
OVERALL PACKAGE KEY PLAN
SCALE 1:15000

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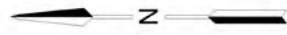
DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



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02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022	
01	PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022	
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: J. HO	SIZE: A1
					SCALE: As indicated	<p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt</p>
					PROJECT CONTRACT:	<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL</p> <p>NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0402</p> <p>SUIT. CODE: 06</p>



NORTHERN VENTILATION STRUCTURE / LOWER PLENTY RD PORTAL



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

NORTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS

OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

NORTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO RE-ESTABLISHED VEGETATION AND DAY-LIGHTED CREEK COURSE.

OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

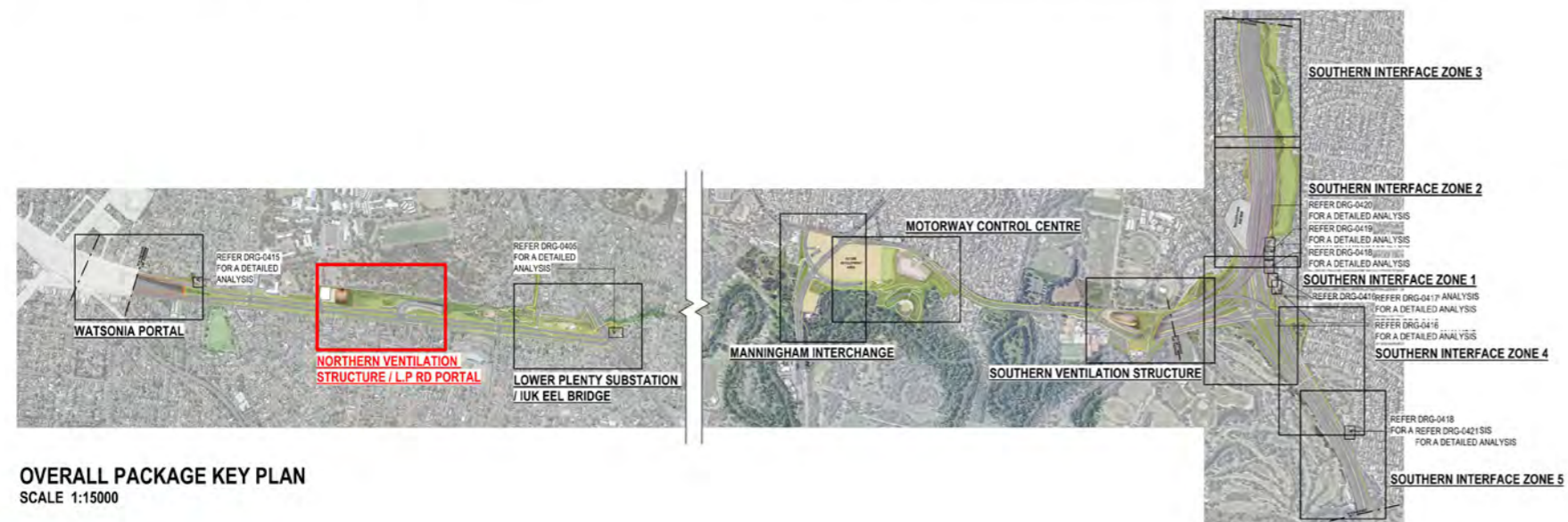


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

NORTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING TO ESTABLISHED WOODLAND AND DAY-LIGHTED CREEK COURSE.

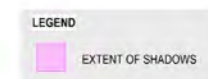
OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
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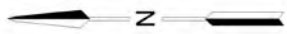
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SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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03	FOR REVIEW	10.08.2022	ENGINEERING	R. MARSH		
02	FOR REVIEW	23.06.2022	CHECKED BY	R. WOOD		
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR		
REV	DESCRIPTION	DATE	APPROVED	APPROVALS		
				DRAWN: J. HO	SIZE: A1	SCALE: As indicated
			Protective Marking: OFFICIAL: Sensitive		PROJECT CONTRACT:	
			CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0403	
					SUIT. CODE: 06 REVISION: 06	



LOWER PLENTY SUBSTATION / IUK (EEL) BRIDGE



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO RE-ESTABLISHED VEGETATION AND BANYULE DRAIN. MINIMAL SHADING TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0405 FOR FURTHER ANALYSIS.

OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM IUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406 FOR FURTHER ANALYSIS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADING TO RE-ESTABLISHED VEGETATION AND BANYULE DRAIN.

OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM IUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406 FOR FURTHER ANALYSIS.



SEPTEMBER 22nd, 3PM
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LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

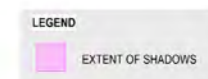
SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. SOME SHADING OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO ESTABLISHED WOODLAND VEGETATION AND BANYULE DRAIN.

OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM IUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406 FOR FURTHER ANALYSIS.



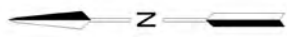
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SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



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01	PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022	
REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DATE	<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>NORTH EAST LINK PROGRAM</p> <p>GPO BOX 4009 MELBOURNE, VICTORIA 3001 PHONE 1800 100 100</p>
<p>REVISIONS</p>			<p>APPROVALS</p>		<p>DRAWN: J. HO</p> <p>SIZE: A1</p> <p>SCALE: As indicated</p>	<p>PROJECT CONTRACT:</p> <p>NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0404</p> <p>SUIT. CODE</p> <p>REVISION</p> <p>06</p>
<p>DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS</p>			<p>Protective Marking: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt</p>		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM LOWER PLENTY SUBSTATION / IUK (EEL) BRIDGE</p>	



LOWER PLENTY SUP / IUK (EEL) BRIDGE



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
BRIDGE CONSTITUTES 9.3% ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE
OVERLOOKING ANALYSIS
REFER NEXT PAGE



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

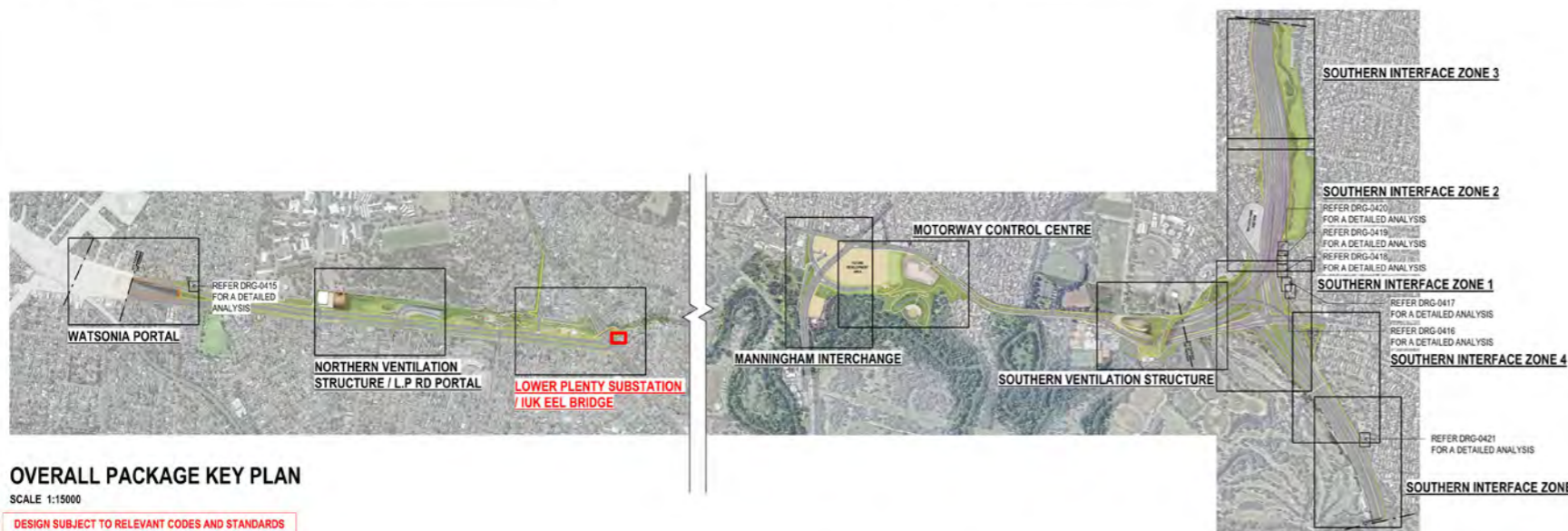
SHADOW ANALYSIS
BRIDGE CONSTITUTES 5.1% ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE
OVERLOOKING ANALYSIS
REFER NEXT PAGE



SEPTEMBER 22nd, 3PM
SCALE 1 : 250

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
BRIDGE CONTRIBUTES NO ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE
OVERLOOKING ANALYSIS
REFER NEXT PAGE



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S.)
- EXTENT OF OVERSHADOWING INTO S.P.O.S.
- IUK (EEL) BRIDGE

C:\Users\jg\Documents\NEL-UUD-Attachment 4_e0279101\01

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DRAWN: J. HO		SIZE: A1	SCALE: As indicated
MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY		NORTH EAST LINK PROGRAM	
VICTORIA'S BIG BUILD		GPO BOX 4009, MELBOURNE, VICTORIA 3001, PHONE 1800 105 105	
Protective Marking: OFFICIAL: Sensitive		PROJECT CONTRACT:	NELP DRAWING No.:
CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		NEL-CNT-WMI-2990-UUD-DRG-0405	SUIT. CODE
REVISION		06	

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LOWER PLENTY SUP / IUK (EEL) BRIDGE



OVERLOOKING PLAN
SCALE 1 : 200

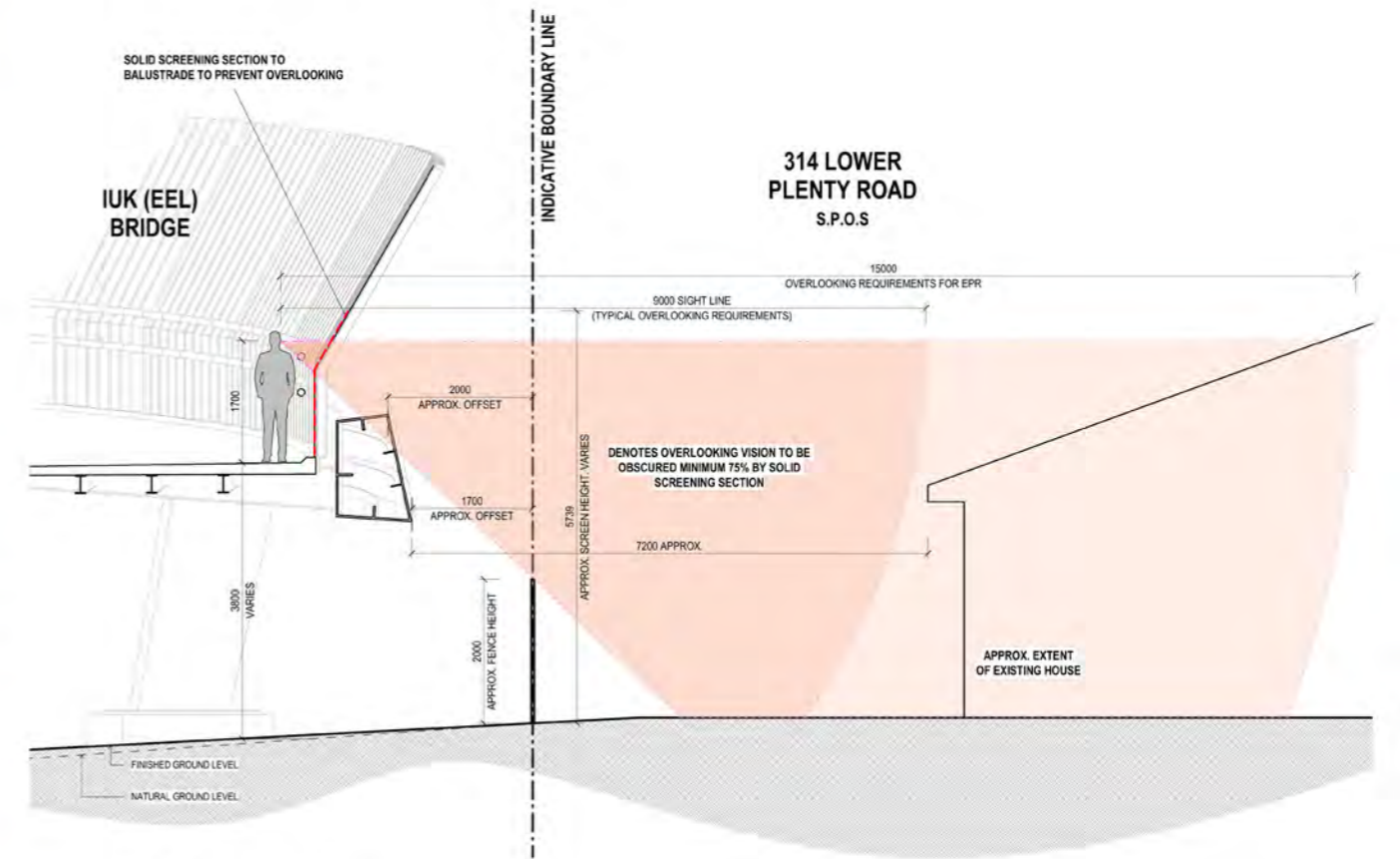
LEGEND

- OBSCURED VISION
- UN-OBSCURD VISION
- SOLID OBSCURED SCREENING OR SIMILAR APPROVED, SUBJECT TO DESIGN DEVELOPMENT.
- IUK (EEL) BRIDGE

LOWER PLENTY ROAD SUP BRIDGE
REQ. LP4 | REG. EMF, EPR LP4

OVERLOOKING ANALYSIS
THERE ARE OVERLOOKING CONCERNS FOR BOTH 314 LOWER PLENTY ROAD AND THE REAR UNIT OF 85 MCCRAE ROAD. BOTH PROPERTIES REQUIRE MITIGATION FROM THE PROPOSED SUP BRIDGE.

THE DESIGN PROPOSES A SCREEN ALLOWING FOR A MAXIMUM CLEAR OPENING OF 25% IN THE REGION SHADED IN THE ABOVE DIAGRAM TO PREVENT VISUAL INTRUSION ON THE SECLUDED PRIVATE OPEN SPACES OF THESE PROPERTIES.



OVERLOOKING SECTION
SCALE 1 : 50

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	
03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	
02	FOR REVIEW	23.06.2022	CHECKED BY	R. NAYLOR	
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	

14/10/2022 4:03:15 PM

GPO BOX 4009
MELBOURNE
VICTORIA 3001
PHONE 180 100 100

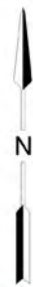
DOT DRAWING No.: _____ Rev: _____

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN
UDLP OVERLOOKING DIAGRAM IUK (EEL) BRIDGE ANALYSIS

PROJECT CONTRACT: _____
NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0406
SUIT. CODE: _____ REVISION: 06

Protective Marking: OFFICIAL: Sensitive

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



MANNINGHAM INTERCHANGE



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

MANNINGHAM INTERCHANGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

MANNINGHAM INTERCHANGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

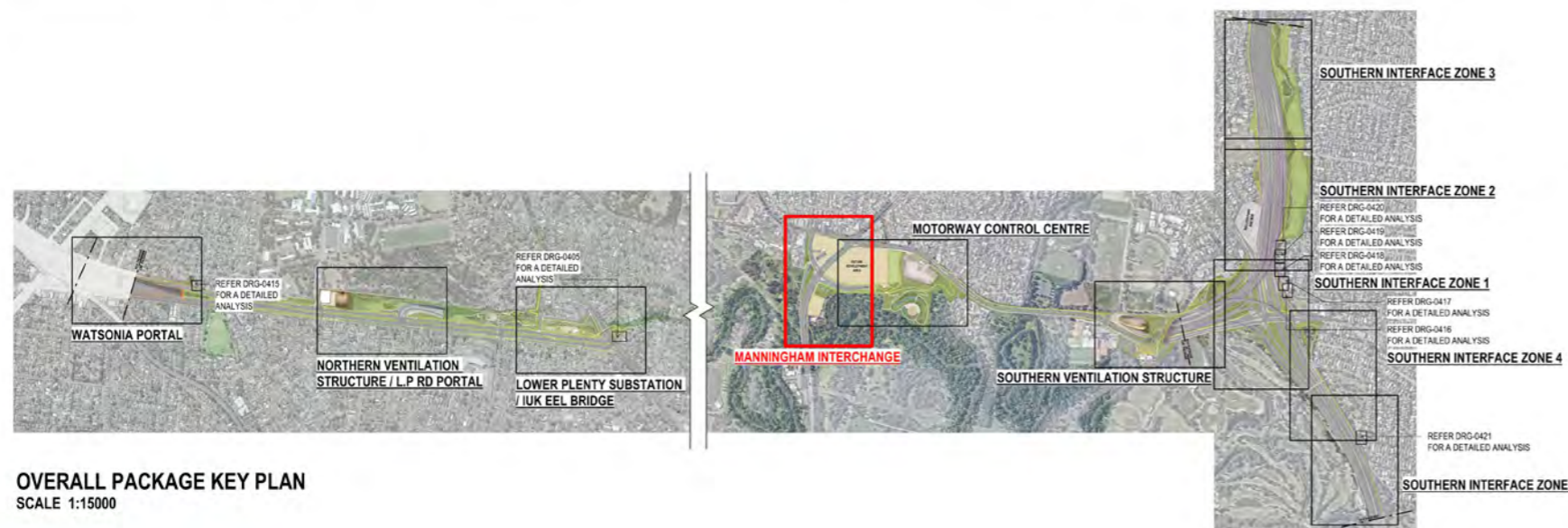


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

MANNINGHAM INTERCHANGE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

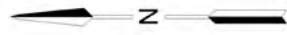
THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

LEGEND
EXTENT OF SHADOWS

C:\Users\Documents\NEL-UUDP-Attachment 4 - egz791C.rvt

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022		
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03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	R. WOOD	14.10.2022		
02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022		
01	PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022		
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: J. HO	SIZE: A1	SCALE: As indicated
				Protective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0407 SUIT. CODE: 06 REVISION: 06	



MOTORWAY CONTROL CENTRE



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

MOTORWAY CONTROL CENTRE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO NEW VEGETATION (SENSITIVE RECEPTORS) IN YARRA FLATS PARK AREA.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS TO SENSITIVE RECEPTORS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

MOTORWAY CONTROL CENTRE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE BACK INTO OR WITHIN PROJECT SITE BOUNDARY, OVER HARD SURFACES.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

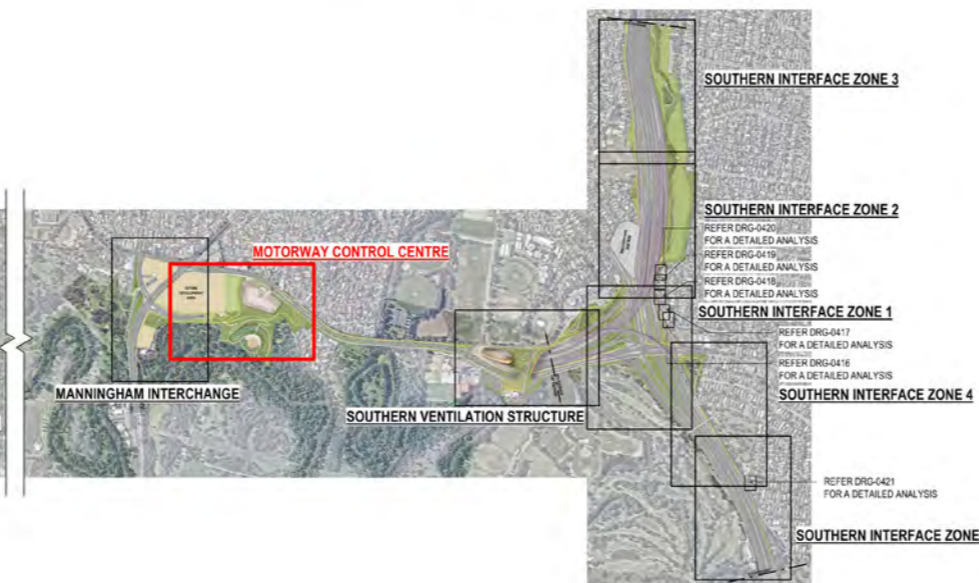
MOTORWAY CONTROL CENTRE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE BACK INTO OR WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING OVER HARD SURFACES AND NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO LANDSCAPING TO NEW BULLEEN ROAD LANDSCAPING.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000



OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
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SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

LEGEND
EXTENT OF SHADOWS

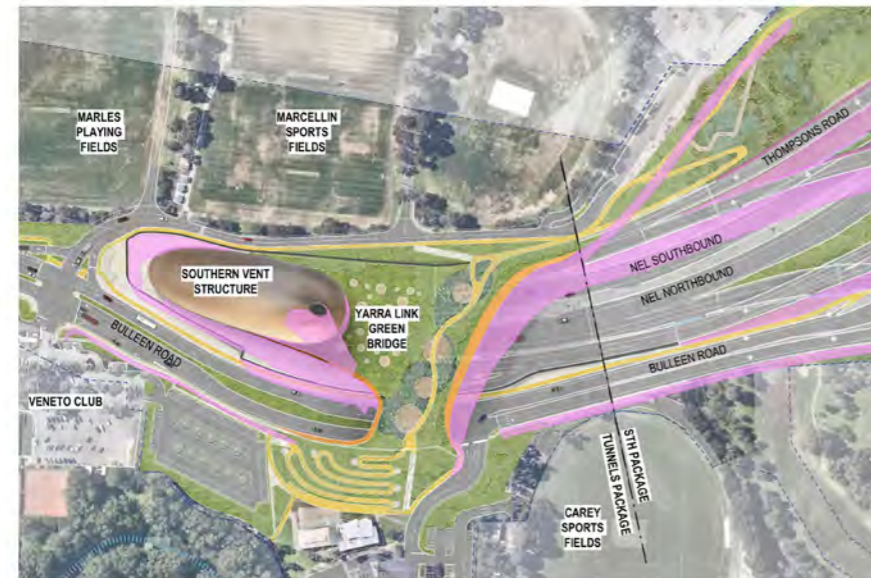
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			DRAWN: J. HO SIZE: A1 SCALE: As indicated		
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			PROJECT CONTRACT: _____ NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0408 SUIT. CODE: _____ REVISION: 06		

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SOUTHERN VENTILATION STRUCTURE

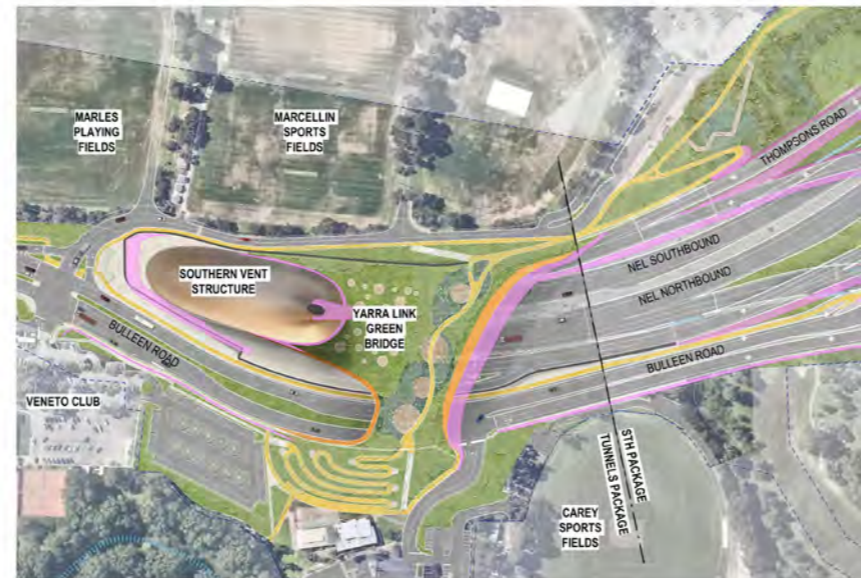


SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADOWING OVER NON-SENSITIVE URBAN ELEMENTS. MINOR SHADOWING OVER OLD CAREY CRICKET CLUB AND FREEWAY GOLD COURSE.

OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO NEW SUP TO EAST OF PORTAL.

OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

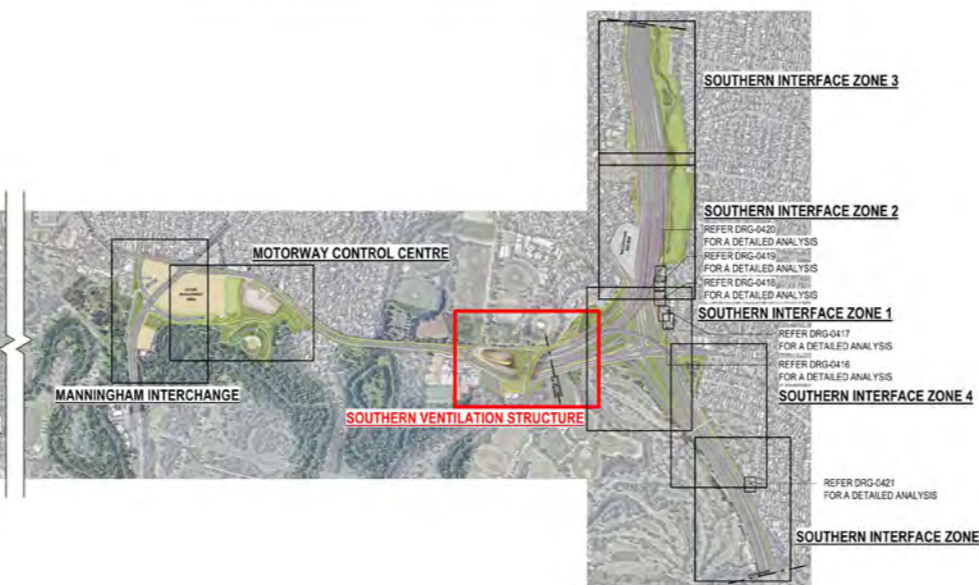
SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. SHADING (LESS THAN 5%) TO MARCELLIN SPORTS FIELD TO EAST OF PORTAL.

OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000



OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

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LEGEND
EXTENT OF SHADOWS

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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02	FOR REVIEW	23.06.2022	VERIFIED BY		R. NAYLOR	14.10.2022	
01	PUBLIC EXHIBITION	02.05.2022	APPROVED				



MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY
VICTORIA'S BIG BUILD

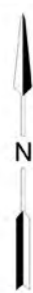
NORTH EAST LINK PROGRAM
GPO BOX 4009
MELBOURNE, VICTORIA 3001
PHONE 1800 105 105

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

DOT DRAWING No.:	Rev.:
NORTH EAST LINK TUNNELS UDLP	
ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN	
UDLP OVERSHADOWING DIAGRAM SOUTHERN VENTILATION STRUCTURE	
PROJECT CONTRACT:	NELP DRAWING No.:
	NEL-CNT-WMI-2990-UUD-DRG-0409
SUIT. CODE	REVISION
	06

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SOUTHERN INTERFACE ZONE 1



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO VIEWPOINT ROAD AND MOUNTAIN VIEW ROAD PROPERTIES. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE TYPICALLY WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO 1 VIEWPOINT AND 162 MOUNTAIN VIEW ROADS. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

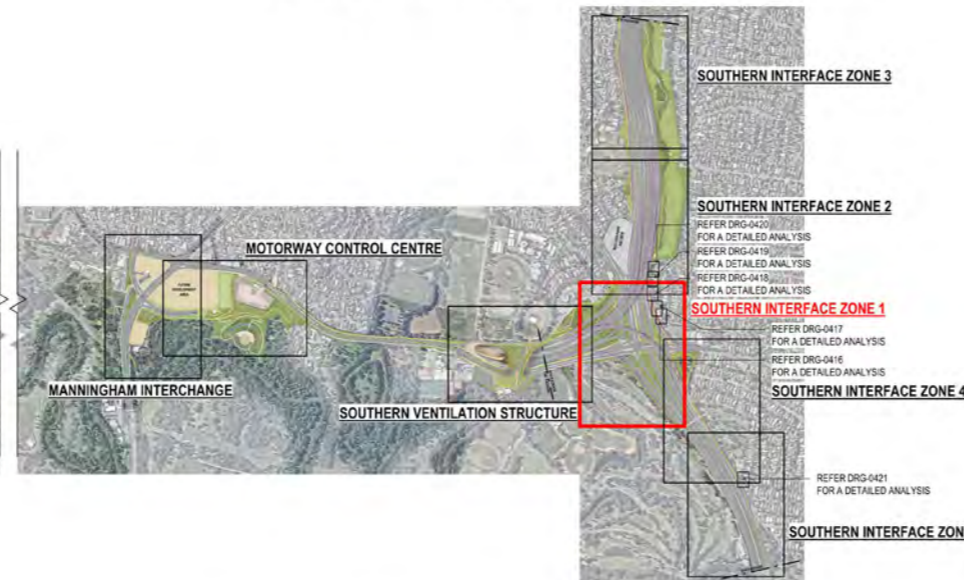
SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE GENERALLY WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO VIEWPOINT ROAD PROPERTIES. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000



OVERSHADOWING DISCLAIMER NOTE:
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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.

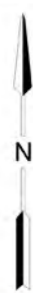
REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND
EXTENT OF SHADOWS

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04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022	May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice		GPO BOX 4009 MELBOURNE, VICTORIA 3001 PHONE 1800 100 100		REVISION		
03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	R. WOOD	14.10.2022	DRAWN: J. HO		Protective Marking: OFFICIAL: Sensitive		06		
02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022	SIZE: A1		CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt				
01	PUBLIC EXHIBITION	02.05.2022	APPROVED			SCALE: As indicated						
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: J. HO		SIZE: A1		SCALE: As indicated		PROJECT CONTRACT:	
	REVISIONS				DRAWN: J. HO		SIZE: A1		SCALE: As indicated		PROJECT CONTRACT:	

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SOUTHERN INTERFACE ZONE 2



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE AND MOUNTAIN VIEW ROAD. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO 150 & 152 MOUNTAIN VIEW ROAD. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION THROUGH USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMF, EPR LP4

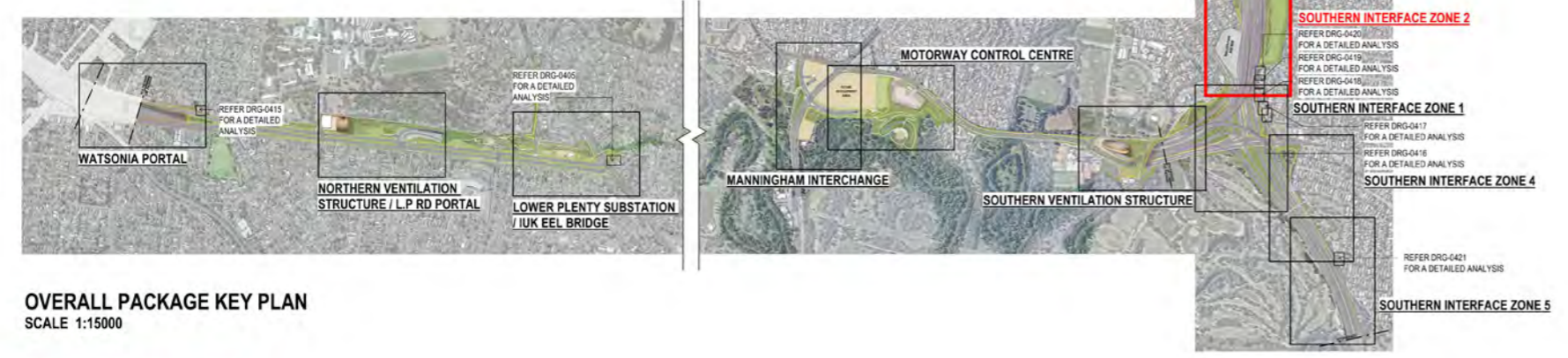
SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE AND MOUNTAIN VIEW ROAD.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OVER KOONUNG CREEK/ KOONUNG RESERVE. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO 152 MOUNTAIN VIEW ROAD. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION THROUGH USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CAST FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.

REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

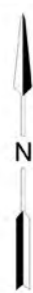
LEGEND
Extent of Shadows

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© North East Link Program		DOT DRAWING No.:		Rev.:	
06	FOR REVIEW	14.10.2022	DRAFTING	NAME	
05	FOR REVIEW	12.10.2022	CHECKED BY	DATE	
04	FOR REVIEW	01.09.2022	DESIGNED BY	14.10.2022	
03	FOR REVIEW	10.08.2022	ENGINEERING	14.10.2022	
02	FOR REVIEW	23.06.2022	CHECKED BY	14.10.2022	
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	14.10.2022	
REV	DESCRIPTION	DATE	APPROVED	APPROVALS	
	REVISIONS			DRAWN: J. HO	
				SIZE: A1	
				SCALE: As indicated	
				NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2	
PROJECT CONTRACT:		NELS DRAWING No.:		SUIT. CODE	
CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		NEL-CNT-WMI-2990-UUD-DRG-0411		REVISION 06	

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Approved SIZ content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.



SOUTHERN INTERFACE ZONE 3



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OVER KOOONUNG CREEK RESERVE.

OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOOONUNG CREEK RESERVE.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADOWING OVER KOOONUNG CREEK RESERVE.

OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOOONUNG CREEK RESERVE.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADOWING OVER KOOONUNG CREEK RESERVE.

OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOOONUNG CREEK RESERVE.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

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SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.

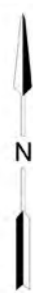
REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND
[Pink shaded area] EXTENT OF SHADOWS

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REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DATE	VERIFIED BY	DATE	ENGINEERING CHECKED BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	FOR REVIEW	DATE	FOR REVIEW	DATE	FOR REVIEW	DATE	FOR REVIEW	DATE	FOR REVIEW	DATE
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022																		
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022																		
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03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	R. WOOD	14.10.2022																		
02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022																		
01	PUBLIC EXHIBITION	02.05.2022	APPROVED																				

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SOUTHERN INTERFACE ZONE 4



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OF EXISTING KOONJUNG CREEK TRAIL AT CORNER OF LEONIS AVENUE AND COLUMBA STREET.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

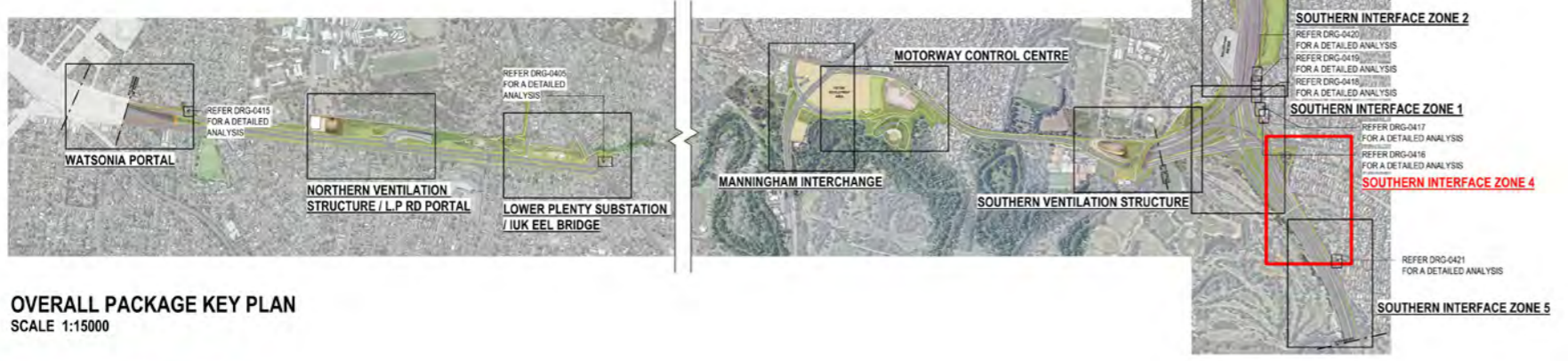
SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING TO EXISTING KOONJUNG CREEK TRAIL APPROACHING CORNER OF LEONIS AVENUE AND COLUMBA STREET. LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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LEGEND
EXTENT OF SHADOWS

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06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022					NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 4	
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022	DRAWN: J. HO	SCALE: As indicated	CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt	NEL-CNT-WMI-2990-UUD-DRG-0413		06
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022						
03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	14.10.2022						
02	FOR REVIEW	23.06.2022	CHECKED BY	R. NAYLOR	14.10.2022						
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY								
REV	DESCRIPTION	DATE	APPROVED								
	REVISIONS		APPROVALS								

Approved SIZ content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.

SOUTHERN INTERFACE ZONE 5



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO REAR FENCE OF 27 & 29 ORION STREET. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION IF REQUIRED THROUGH USE OF SEMI-TRANSPARENT BARRIER TYPE WILL OFFSET THIS.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000



OVERSHADOWING DISCLAIMER NOTE:
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LEGEND
[Pink box] EXTENT OF SHADOWS

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REV	DESCRIPTION	DATE	APPROVALS	APPROVED
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH
03	FOR REVIEW	10.08.2022	ENGINEERING	R. MARSH
02	FOR REVIEW	23.06.2022	CHECKED BY	R. WOOD
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR

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DOT DRAWING No.: [] Rev: []

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN
UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5

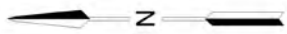
SPARK NORTH EAST LINK
MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY
VICTORIA'S BIG BUILD
NORTH EAST LINK PROGRAM
GPO BOX 4009
MELBOURNE, VICTORIA 3001
PHONE 1800 100 100

Protective Marking: **OFFICIAL: Sensitive**

PROJECT CONTRACT: []
NELP DRAWING No.: []
SUIT. CODE [] REVISION []

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt
DRAWN: J. HO
SIZE: A1
SCALE: As indicated

NEL-CNT-WMI-2990-UUD-DRG-0414
06



WATSONIA PORTAL ANALYSIS



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

WATSONIA PORTAL ANALYSIS
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

WATSONIA PORTAL ANALYSIS
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

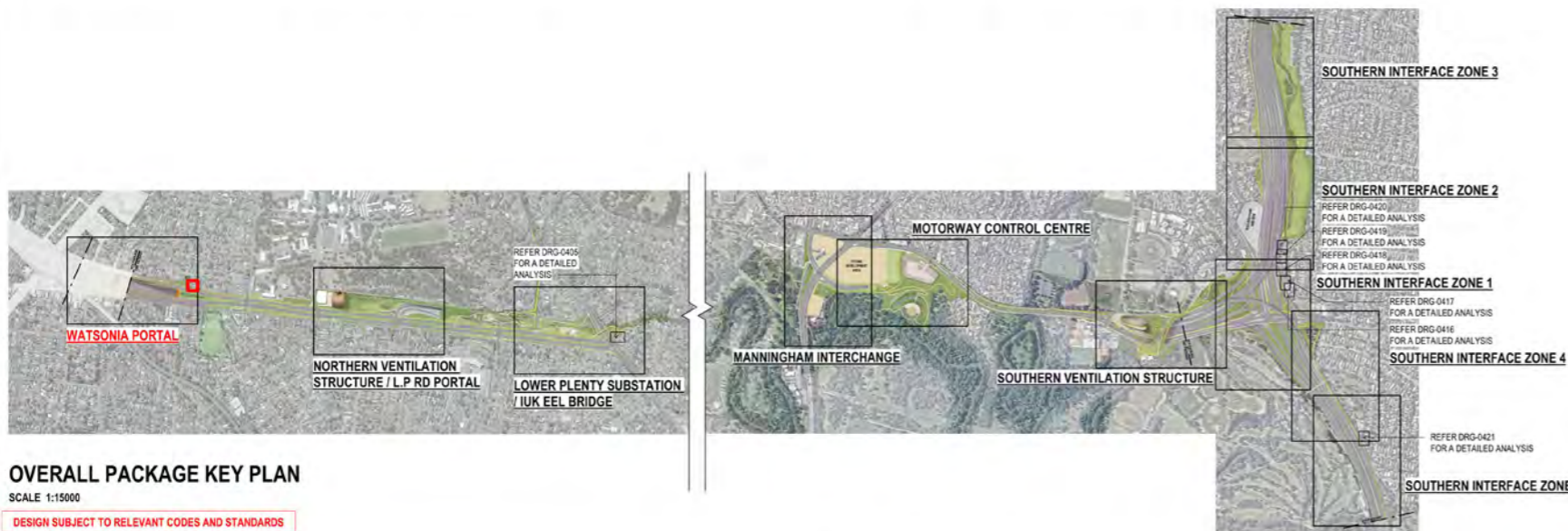


SEPTEMBER 22nd, 3PM
SCALE 1 : 250

WATSONIA PORTAL ANALYSIS
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE MOSTLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING CASTED OVERLAPS ENTIRELY WITHIN SHADOWS CAST BY 12 LENOLA'S EXISTING FENCE AND THEREFORE CONSTITUTES NO OVERSHADOWING CONCERNS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

OVERSHADOWING DISCLAIMER NOTE:
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LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S)
- EXTENT OF OVERSHADOWING INTO S.P.O.S
- PROPOSED WALL EXTENT

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06 FOR REVIEW	14.10.2022	DRAFTING	NAME	DATE	<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice
05 FOR REVIEW	12.10.2022	CHECKED BY	E. GRIFFITH	14.10.2022	
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01 PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022	
REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DRAWN: J. HO
REVISIONS		APPROVALS		SIZE: A1	SCALE: As indicated
PROTECTIVE MARKING: OFFICIAL: SENSITIVE		PROJECT CONTRACT:		NEL DRAWING No.:	SUIT. CODE
CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		NORTH EAST LINK TUNNELS UDLP		NEL-CNT-WMI-2990-UUD-DRG-0415	REVISION
MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY		ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN		UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL ANALYSIS	
VICTORIA'S BIG BUILD		NORTH EAST LINK PROGRAM		06	

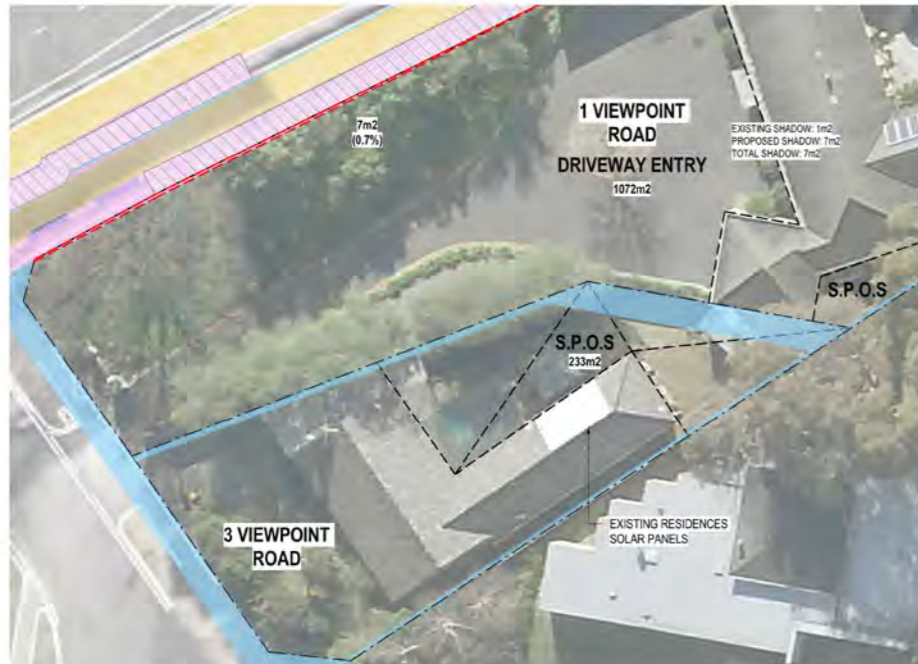
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SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 1

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.



SEPTEMBER 22nd, 9AM

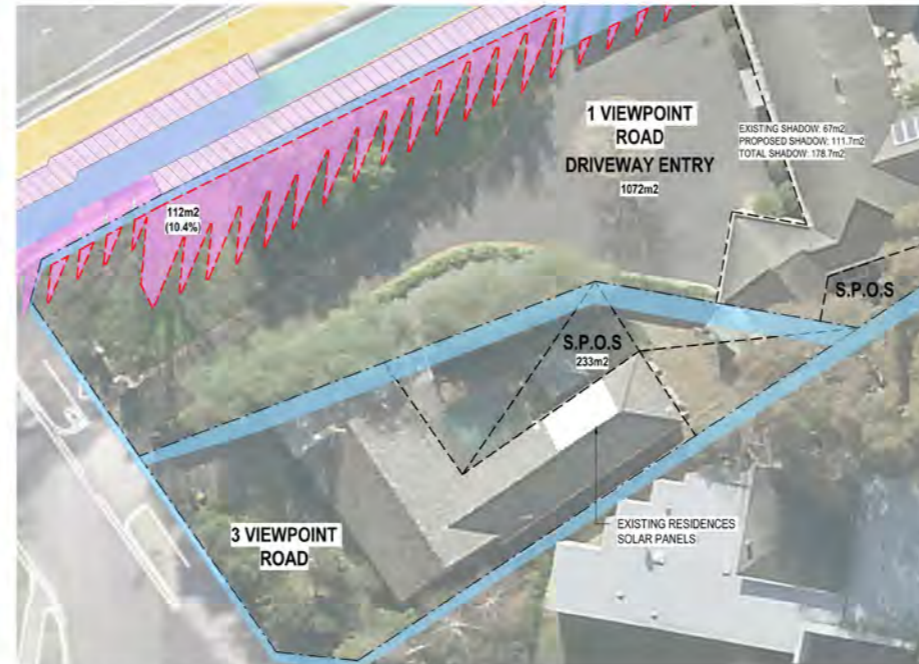
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

OVERSHADOWING DISCLAIMER NOTE:
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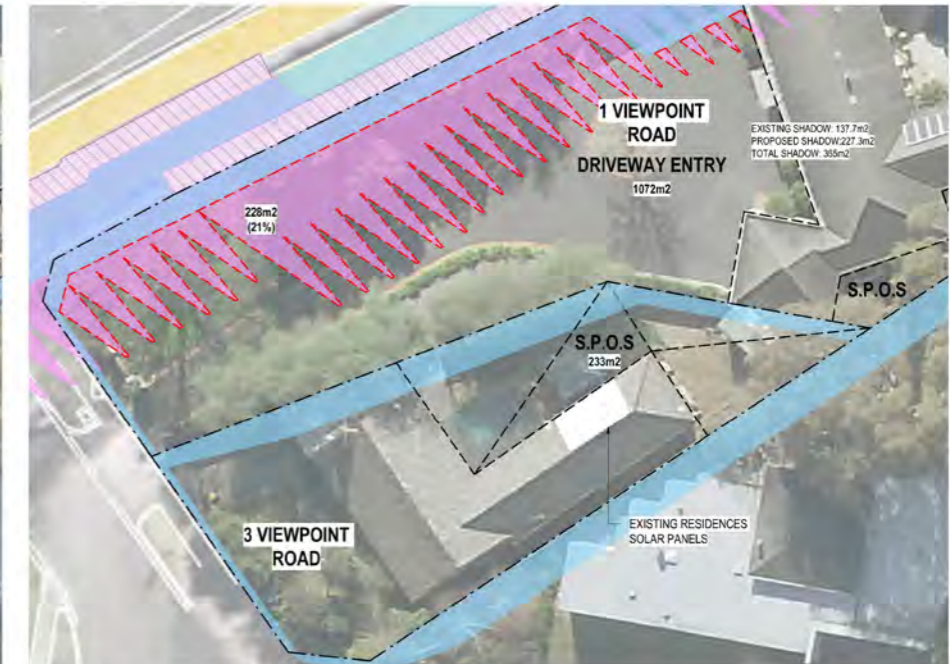


SEPTEMBER 22nd, 12PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. SOME OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 3PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

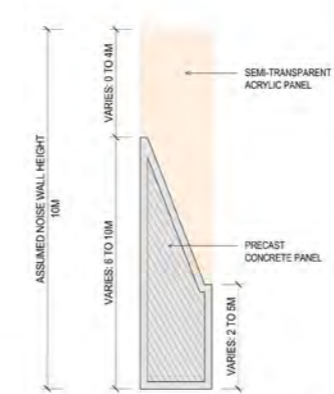
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ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. SOME OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN

SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS



NOISE WALL TYPICAL DETAIL
SCALE 1 : 100

ASSUMED NOISE WALL HEIGHTS: 10 METRES
DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.
REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE & NOISE WALL SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S)
- EXTENT OF OVERSHADOWING INTO S.P.O.S
- PROPOSED WALL EXTENT

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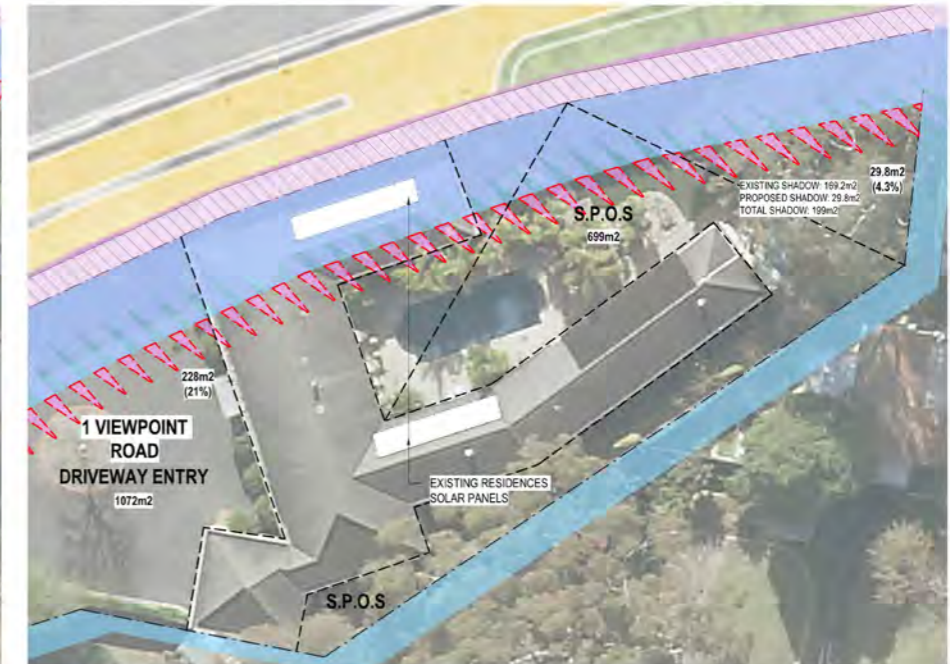
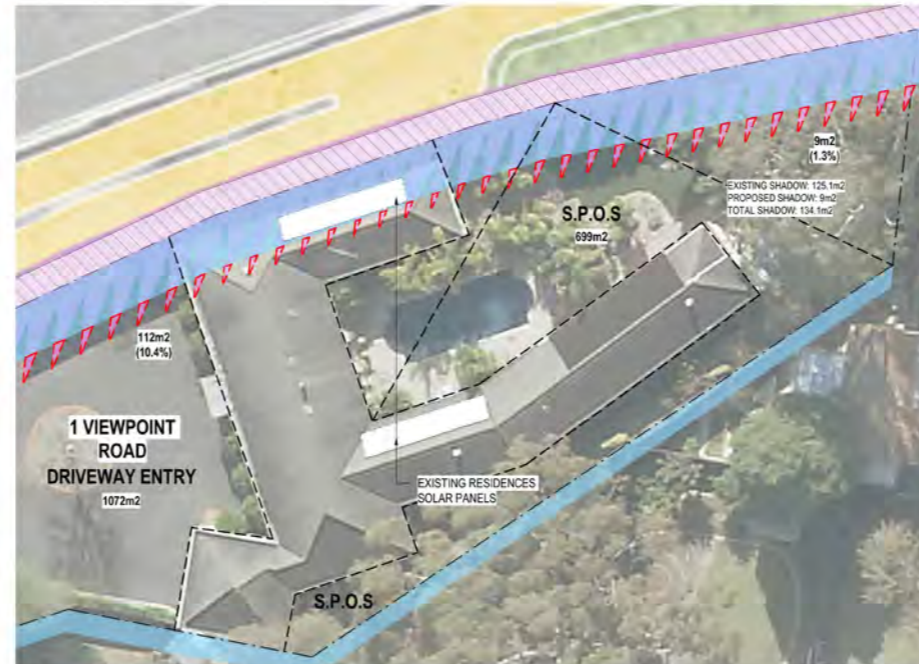
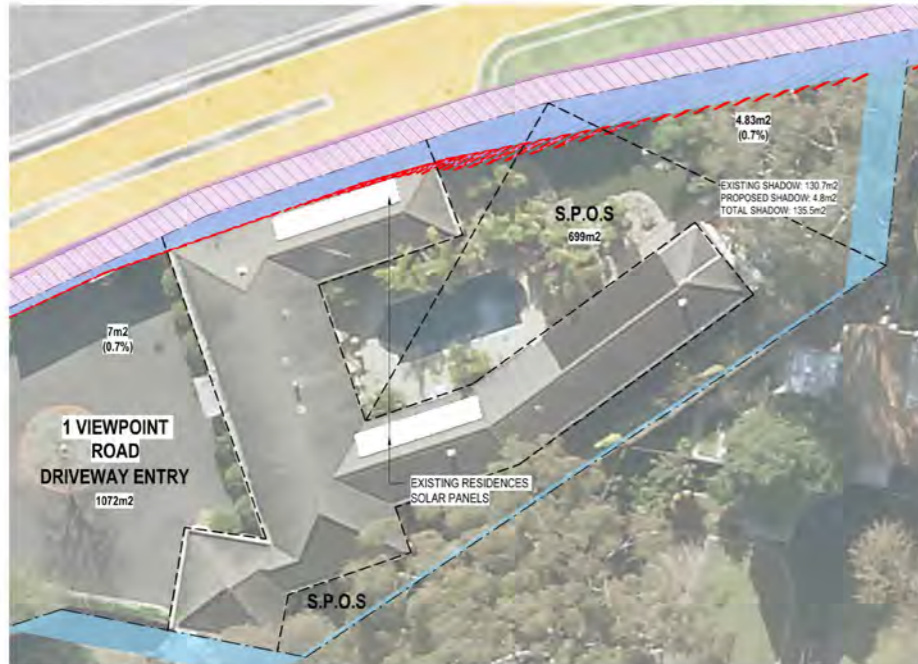
© North East Link Program		NAME		DATE		Conditions of Use				DOT DRAWING No.: NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 1	
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022	This Document has been developed for the purposes of the North East Link Program.		PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0416		SUIT. CODE	REVISION
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022	Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and		CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt			06
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022	May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice					
03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	R. WOOD	14.10.2022						
02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022						
01	PUBLIC EXHIBITION	02.05.2022	APPROVED								
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: J. HO	SIZE: A1	SCALE: As indicated				

Approved SI2 content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.

SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.



SEPTEMBER 22nd, 9AM

SEPTEMBER 22nd, 12PM

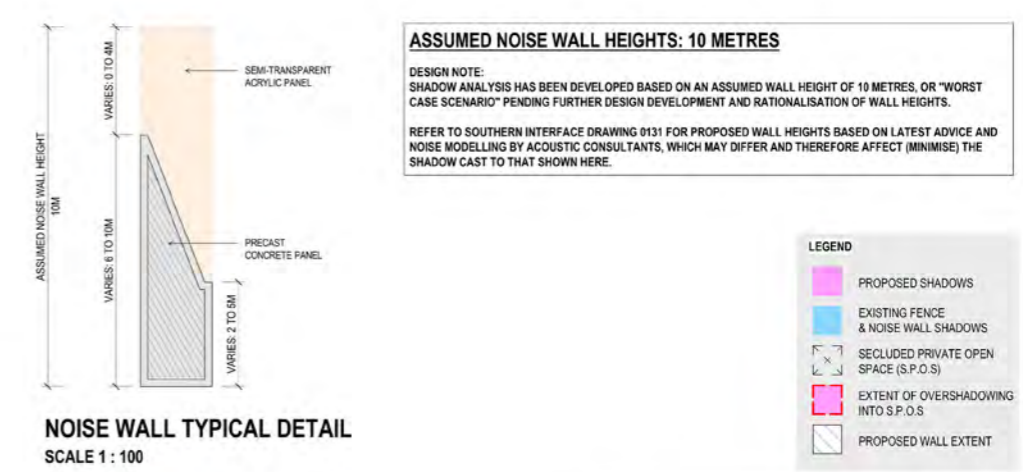
SEPTEMBER 22nd, 3PM

SCALE 1 : 250
 SOUTHERN INTERFACE ZONE 1
 REQ. LP4 | REG. EMF, EPR LP4
SHADOW ANALYSIS
 ADDITIONAL SHADOW CAST OVER THE SECLUDED PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL.
OVERLOOKING ANALYSIS
 THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

SCALE 1 : 250
 SOUTHERN INTERFACE ZONE 1
 REQ. LP4 | REG. EMF, EPR LP4
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SCALE 1 : 250
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 SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



OVERALL PACKAGE KEY PLAN

NOISE WALL TYPICAL DETAIL

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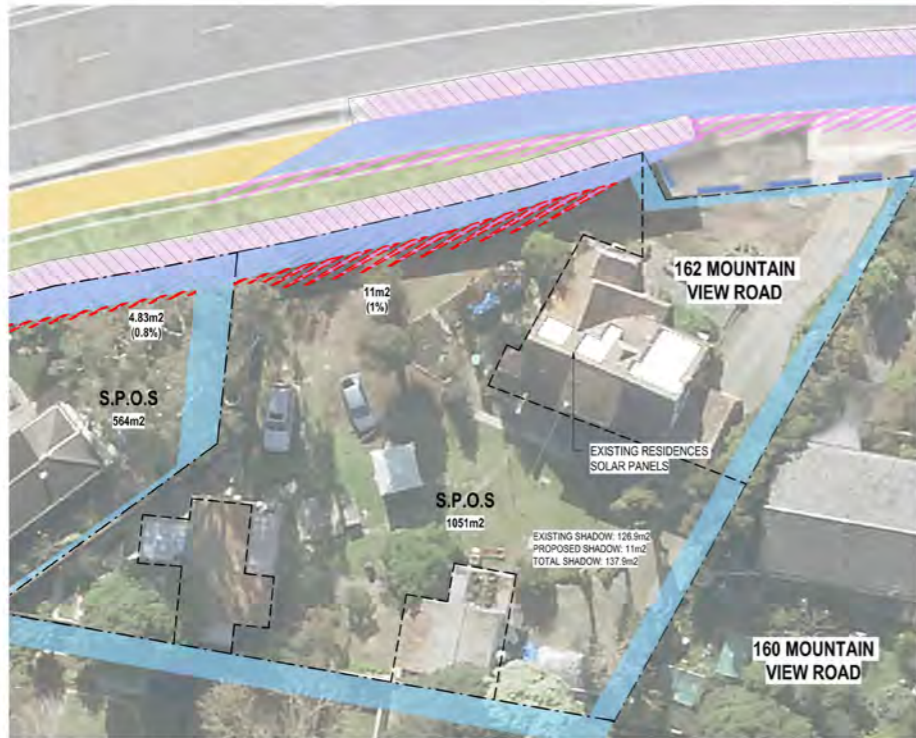
© North East Link Program		NAME		DATE		Conditions of Use				DOT DRAWING No.: NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2	
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SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 3

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SEPTEMBER 22nd, 9AM

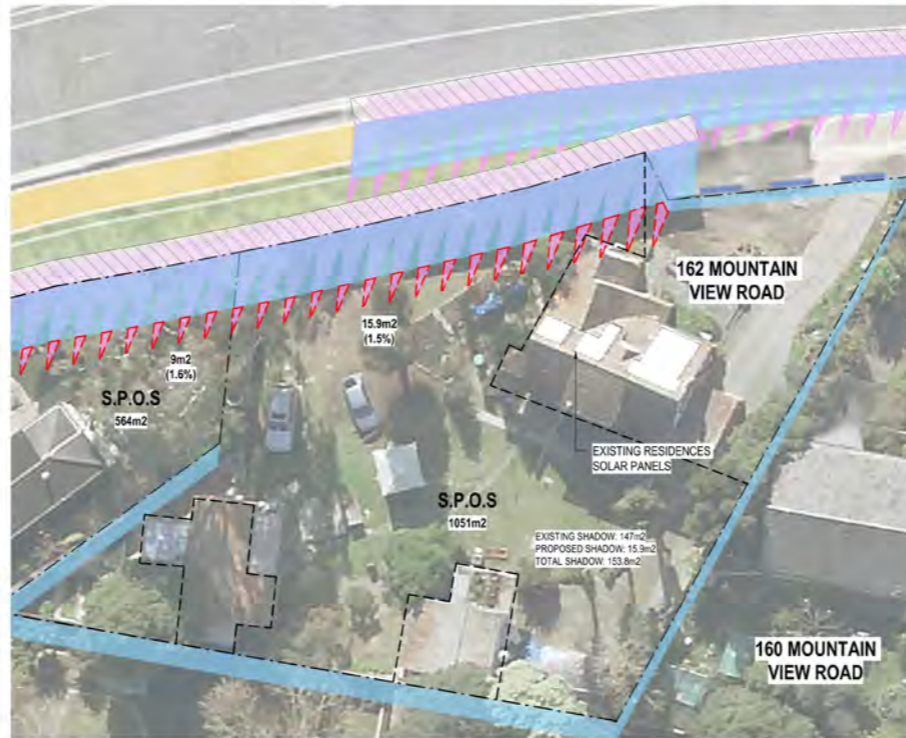
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE & DRIVEWAY OF 162 MOUNTAIN VIEW ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

OVERSHADOWING DISCLAIMER NOTE:
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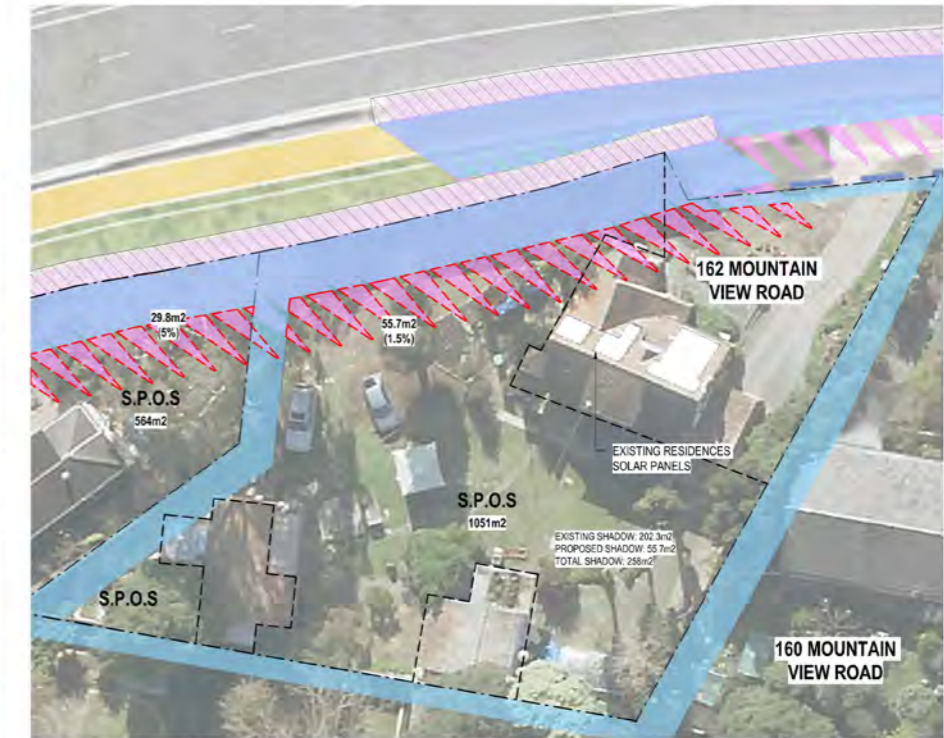


SEPTEMBER 22nd, 12PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

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SEPTEMBER 22nd, 3PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

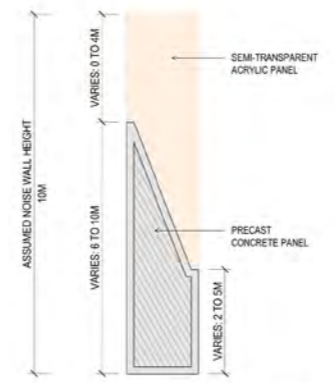
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OVERALL PACKAGE KEY PLAN

SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS



NOISE WALL TYPICAL DETAIL
SCALE 1 : 100

ASSUMED NOISE WALL HEIGHTS: 10 METRES
DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.
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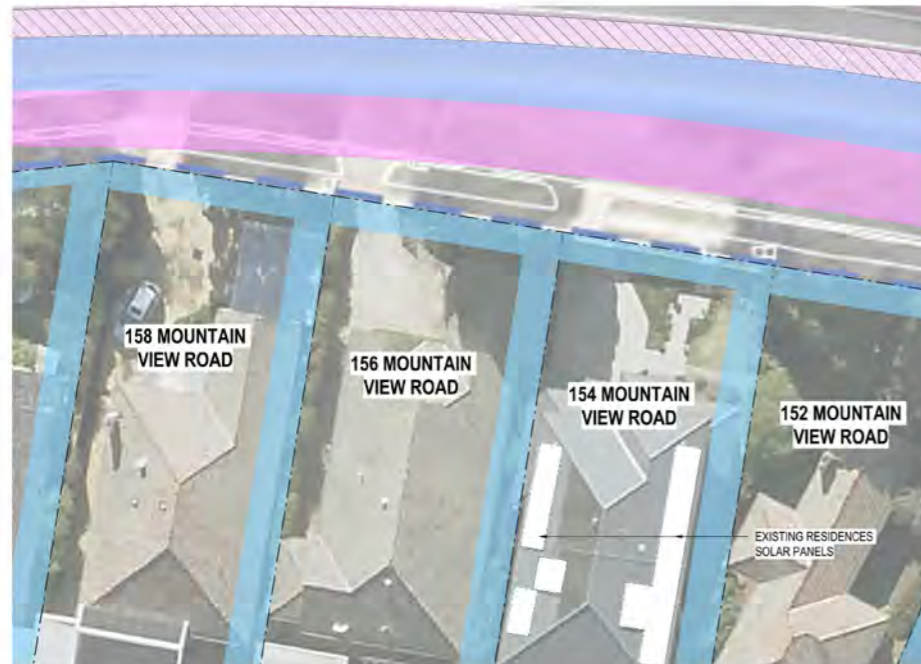
LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE & NOISE WALL SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S.)
- EXTENT OF OVERSHADOWING INTO S.P.O.S.
- PROPOSED WALL EXTENT

<p>© North East Link Program</p> <table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>M. KEDDELL</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>R. MARSH</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>R. MARSH</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>R. WOOD</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td>R. NAYLOR</td> </tr> </table>		REV	DESCRIPTION	DATE	APPROVED	06	FOR REVIEW	14.10.2022	E. GRIFFITH	05	FOR REVIEW	12.10.2022	M. KEDDELL	04	FOR REVIEW	01.09.2022	R. MARSH	03	FOR REVIEW	10.08.2022	R. MARSH	02	FOR REVIEW	23.06.2022	R. WOOD	01	PUBLIC EXHIBITION	02.05.2022	R. NAYLOR	<p>Conditions of Use This document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice</p>	<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>NORTH EAST LINK PROGRAM</p> <p>GPO BOX 4009 MELBOURNE, VICTORIA 3001 PHONE 1800 105 105</p>	<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 3</p>
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<p>REV DESCRIPTION REVISIONS</p>		<p>APPROVALS</p>	<p>DRAWN: J. HO SIZE: A1 SCALE: As indicated</p>	<p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0418 SUIT. CODE: REVISION: 06</p>																												

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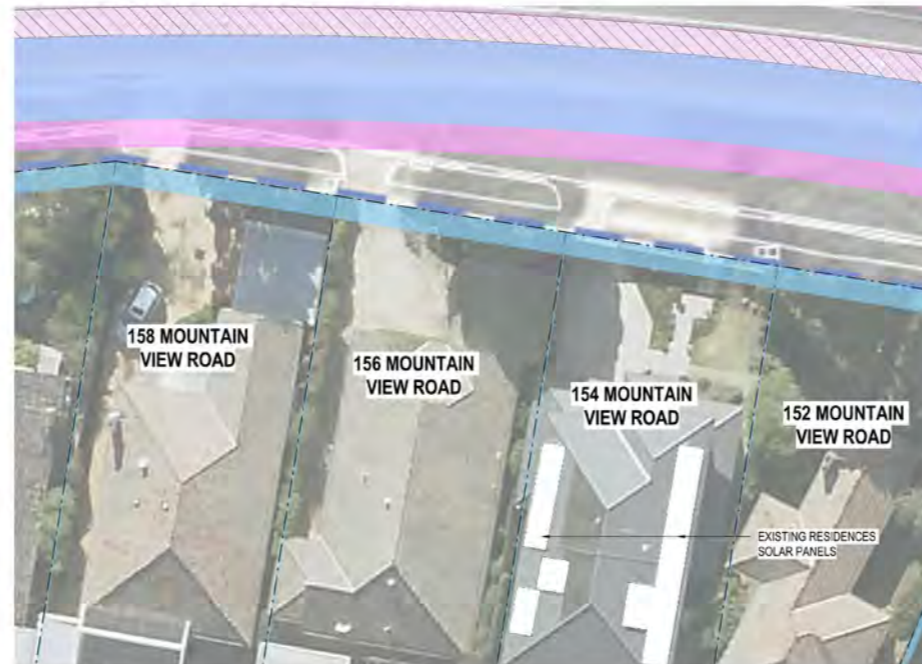
SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 4



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

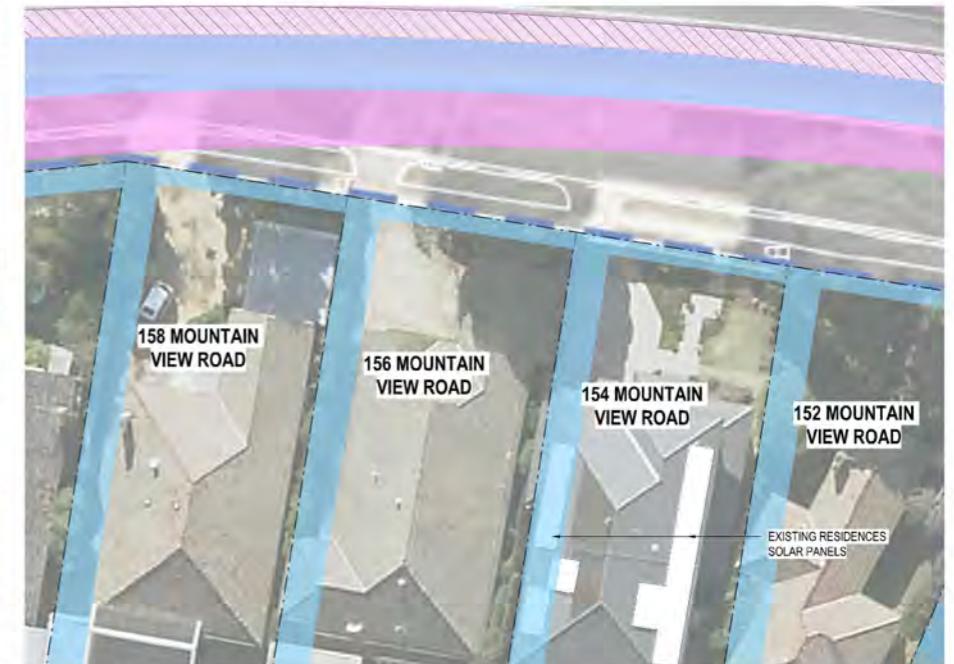
SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND MAJORITY OVER MOUNTAIN VIEW ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

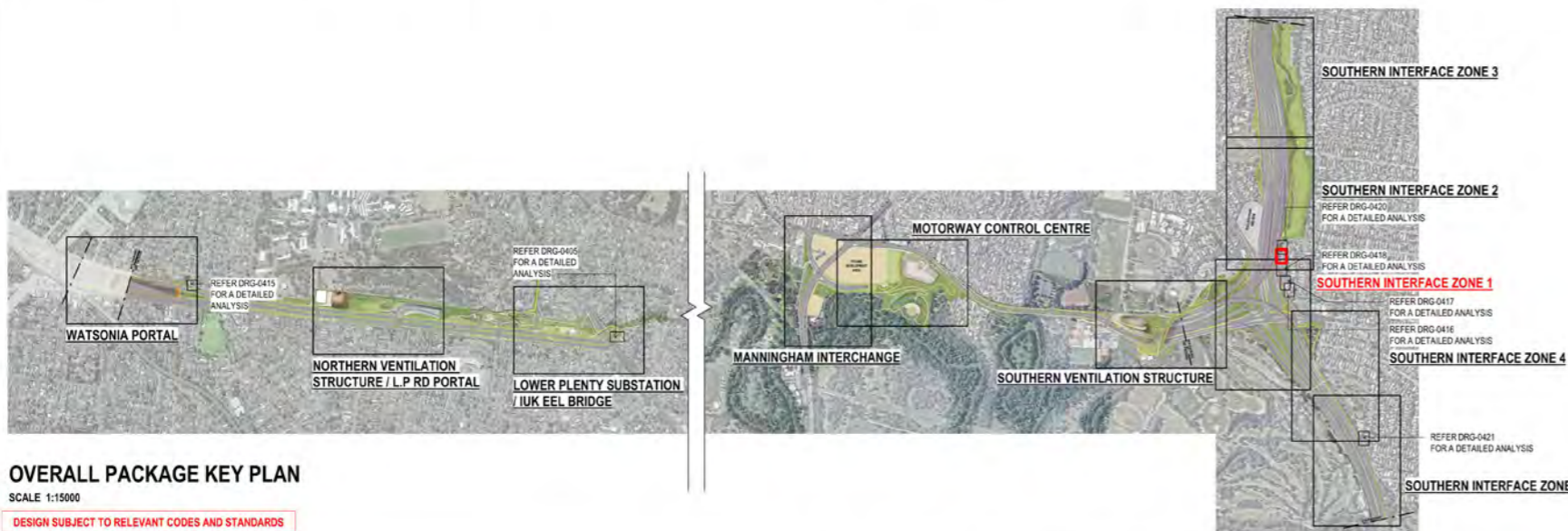
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SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

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OVERLOOKING ANALYSIS
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OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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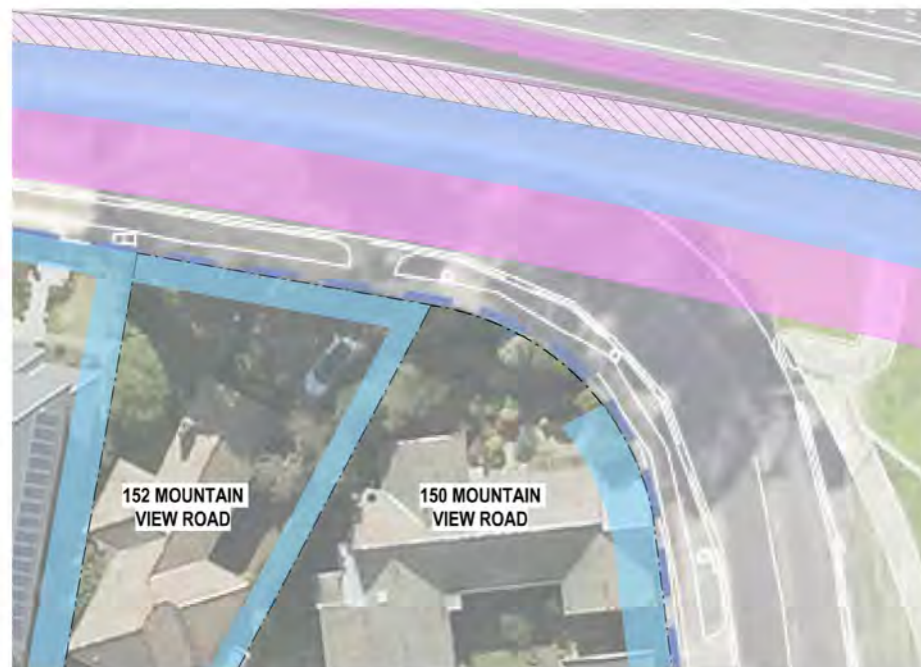
LEGEND

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06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH				14.10.2022	<p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0419</p>	<p>SUIT. CODE</p>	<p>REVISION</p>	
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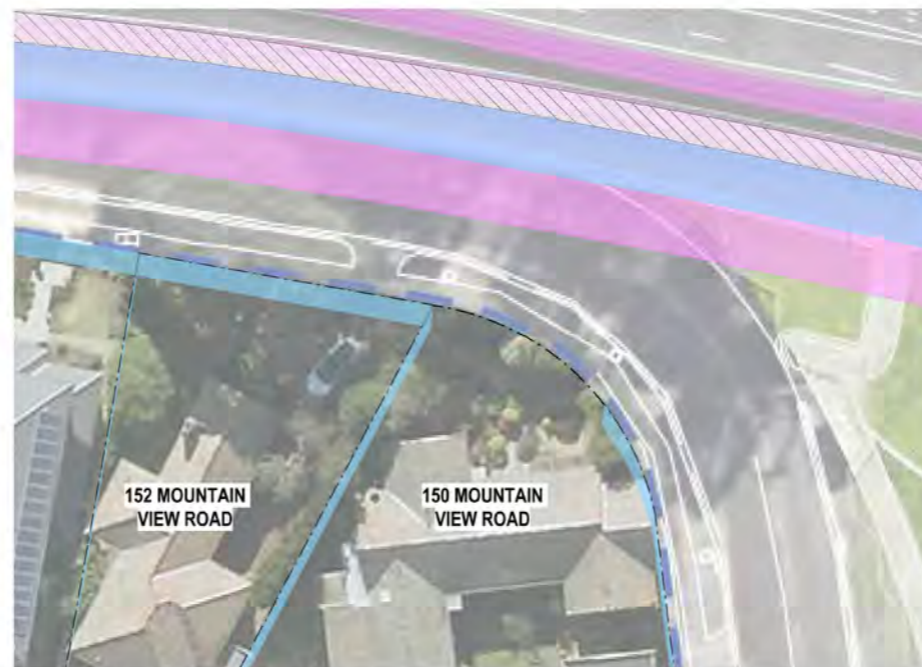
SOUTHERN INTERFACE ZONE 2 ANALYSIS



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
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OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

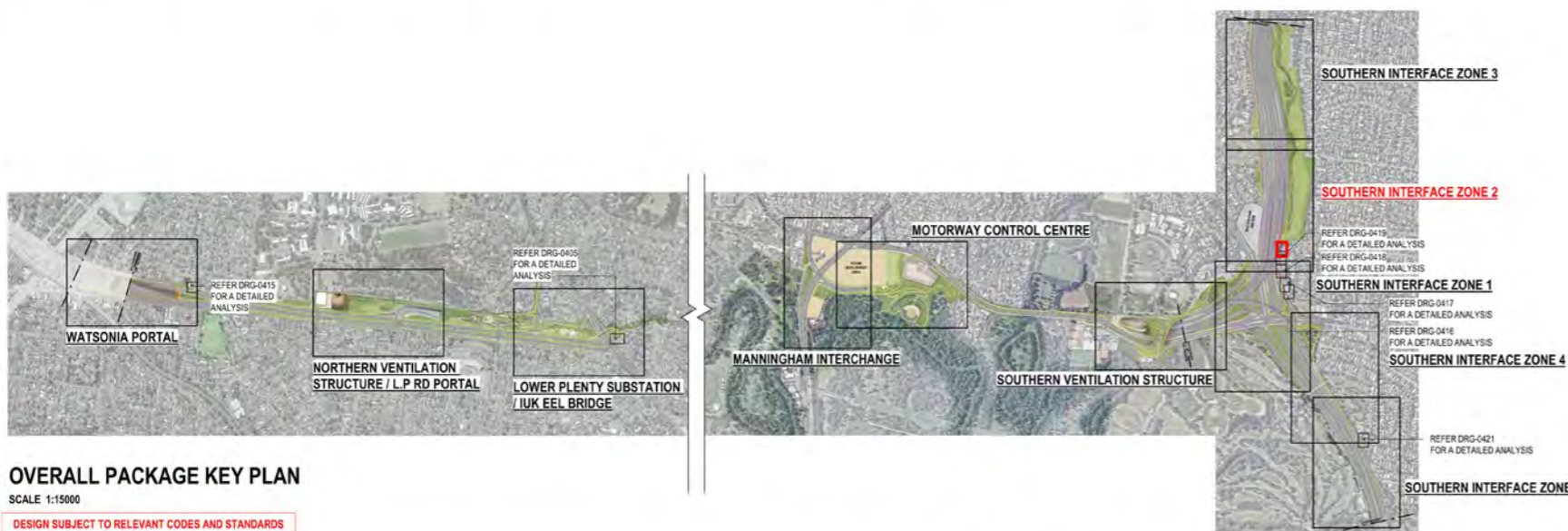
SHADOW ANALYSIS
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OVERLOOKING ANALYSIS
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SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL OVERSHADOWING IS CASTED OVER MOUNTAIN VIEW ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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DESIGN NOTE:
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REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE & NOISE WALL SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S)
- EXTENT OF OVERSHADOWING INTO S.P.O.S
- PROPOSED WALL EXTENT

<p>© North East Link Program</p> <p>06 FOR REVIEW 14.10.2022 DRAFTING E. GRIFFITH 14.10.2022</p> <p>05 FOR REVIEW 12.10.2022 CHECKED BY M. KEDDELL 14.10.2022</p> <p>04 FOR REVIEW 01.09.2022 DESIGNED BY M. KEDDELL 14.10.2022</p> <p>03 FOR REVIEW 10.08.2022 ENGINEERING R. MARSH 14.10.2022</p> <p>02 FOR REVIEW 23.06.2022 CHECKED BY R. MARSH 14.10.2022</p> <p>01 PUBLIC EXHIBITION 02.05.2022 VERIFIED BY R. WOOD 14.10.2022</p>		<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice 		<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>PROTECTIVE MARKING: OFFICIAL: SENSITIVE</p>		<p>NORTH EAST LINK PROGRAM</p> <p>GPO BOX 4009 MELBOURNE, VICTORIA 3001 PHONE 1800 100 100</p>		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2 ANALYSIS</p>		<p>DOT DRAWING No.: Rev:</p>	
<p>REV DESCRIPTION REVISIONS</p>		<p>APPROVED R. NAYLOR 14.10.2022</p> <p>APPROVALS</p>		<p>DRAWN: J. HO SIZE: A1 SCALE: As indicated</p>		<p>PROJECT CONTRACT: NELP DRAWING No.: CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt</p>		<p>NEL-CNT-WMI-2990-UUD-DRG-0420 SUIT. CODE: REVISION 06</p>			

Approved SI2 content and design detail within NEL Tunnels UDLP has been TRANSFERRED to the Eastern Freeway Upgrades - Burke Road to Tram Road UDLP.

SOUTHERN INTERFACE ZONE 5 ANALYSIS

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING 27 & 29 ORION STREET.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

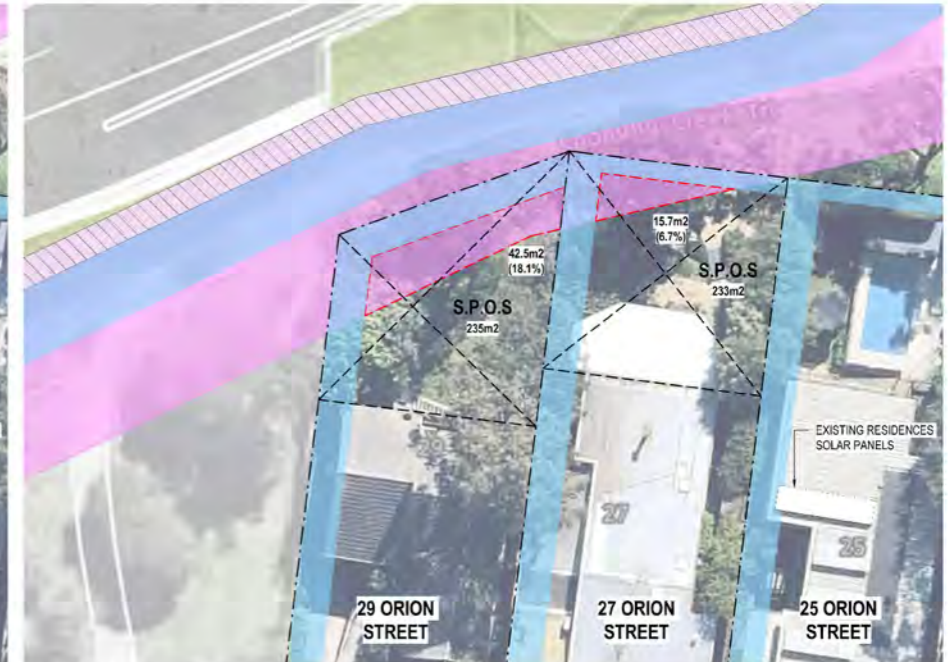


SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER THE PROPERTIES OF 27 & 29 ORION STREET; MOST SHADOWS CAST OVERLAP WITH EXISTING FENCE SHADOWS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

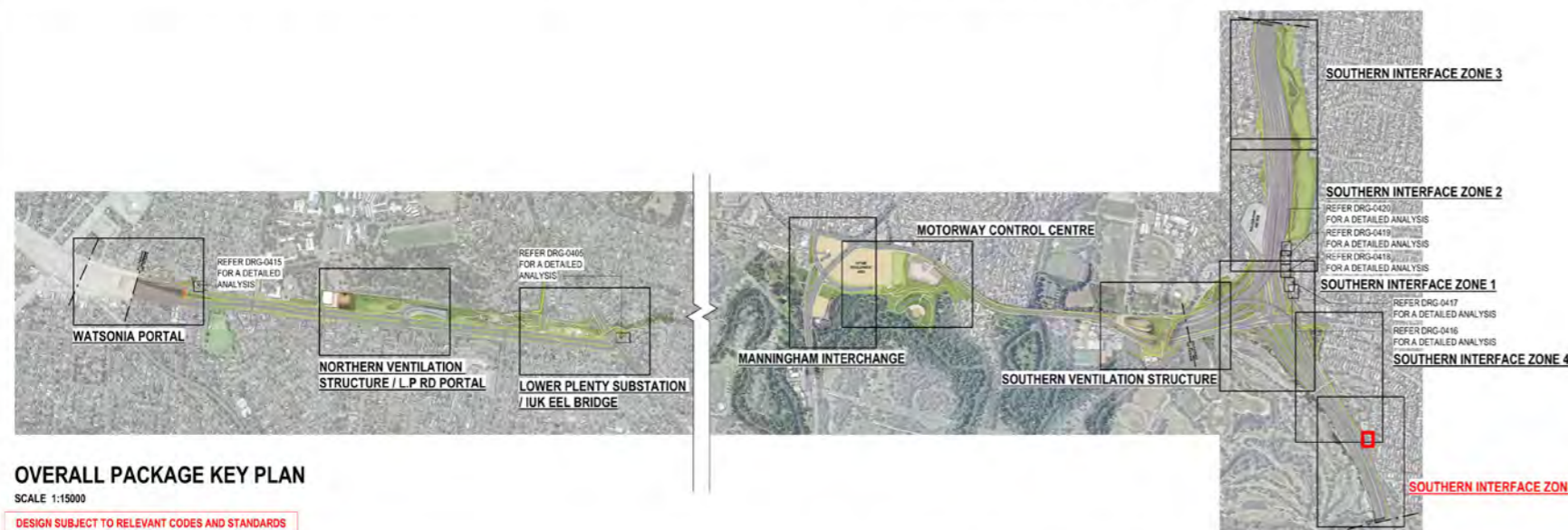


SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST OVER KOONUNG CREEK TRAIL AND INTO THE PROPERTIES OF 27 & 29 ORION STREET. SHADING CAST INTO THE PROPERTY OF 27 ORION STREET REMAINS MINIMAL WHEREAS THE SHADOWING EXTENT IS MODERATE WITHIN THE PROPERTY OF 29 ORION STREET. NO WALL SHADOWS IMPACT THE BUILT FORM OF EITHER PROPERTIES.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000
DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.

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