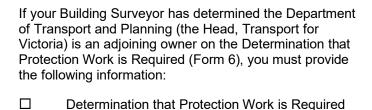
Building Act - Protection Work Notice

Submission Checklist



- (Form 6) Protection Work Notice (Form 7) Allotment plan in accordance with r25(1)(d) of the Building Regulations 2018 Contract of insurance in accordance with s93 of the Building Act 1993. You may arrange the amount of insurance without our involvement; however, we reserve the right to require an increase of the amount if the amount arranged by you is considered unsatisfactory. Dilapidation survey in accordance with s94 of the Building Act 1993. The dilapidation survey report must cover all road assets (pavement, kerb, footpath, signs, trees, signal and light poles, etc) within the zone of influence of dewatering and
 - a) a plan showing all road assets

excavation or above the temporary ground

anchors, whichever is greater. The dilapidation

survey report must include all of the following:

- b) labelled overview photos taken at maximum 20 m intervals
- c) labelled photos of all existing defects OR
- d) continuous video footage at maximum 10 m wide passes
- e) a plan of the path followed during video footage collection.

You may prepare the dilapidation survey report without our involvement; however, we reserve the right to undertake a joint dilapidation survey if the dilapidation survey report provided for review is considered unsatisfactory

Plans, drawings and specifications in accordance with s92 of the *Building Act 1993* that detail how protection work will protect the adjoining road reserve as described below (further guidance provided below).

To reduce the costs associated with the Departments assessment of an application we encourage inclusion of

a completed copy of this checklist indicating all the below have been addressed or providing statements of clarification where not relevant.

The below sections provide the typical details required for each type of protection work (retention, demolition, gantries, hording, cranes), most sites will include more than one type of protection works.

RETAINING WALLS AND EXCAVATION RETENTION SYSTEMS:

If any items are not applicable, a brief justification must be provided for our assessment. Situations where items may not be applicable include low retaining walls adjacent to grassed road reserves, retention systems set back from the road reserve, etc.

1. Geotechnical investigation information:

- □ a) the results of a geotechnical site investigation and laboratory testing undertaken in accordance with AS 1289. AS 1726 and AS 4133
- □ b) the geotechnical model used for design of protection work prepared in accordance with AS 1726
- □ c) where the materials encountered by the geotechnical site investigation include distinctly weathered or better sedimentary rock, the bedding dip and dip direction and joint sets must be identified and included in the geotechnical model
- □ d) an explanation of the source of the design value for each material parameter adopted for the geotechnical model e.g. laboratory testing results, published information (including reference)
- an explanation of the source of the design groundwater level/s adopted for the geotechnical model.
- ☐ f) the loads and load combinations adopted for design of protection work prepared in accordance with AS 1141
- ☐ g) an explanation of the determination of the design structural strength of protection work prepared in accordance with the relevant Australian Standards



□ r	an explanation of the determination of the design geotechnical strength of protection work prepared in accordance with AS 4678	☐ g) the method of dewatering e.g. dewatering wells, temporary or permanent, sumps etc. and any dewatering infrastructure to be installed inside the road reserve and demonstrate no adverse
2.	Design reports & calculations	impacts due to associated settlements. h) if a drained basement design with continuous
□ a	the geotechnical design parameters adopted based on the information from geotechnical report and justified by the designer	groundwater collection and extraction has been adopted as a permanent solution, a copy of all the necessary approvals must be submitted
□k		• • • • • • • • • • • • • • • • • • • •
	anchors and loads include the design calculations/software outputs	 4. Certificate of compliance: □ a) a Building Regulations 2018 r126 certificate of compliance for protection work signed by an independent engineer who DID NOT prepare the design and who is a Registered Building
_ `	explanation of the expected horizontal and vertical displacement at the ground surface within the zone of influence of excavation or above the	Practitioner in the category of engineer, class of engineer (civil). □ b) all documents referenced in certificate of
	temporary ground anchors. Note that the Departments deflections limits for adjacent walls	compliance must be supplied and should be marked issued for construction. □ c) The revisions, issue date and other details of the
□ f	dewatering including the target reduced level, the	documents referenced on the certificate of compliance must match those of the supplied documents.
	dewatering methodology, extent of drawdown – zone of influence, the expected volume of discharge, modelled settlement resulting from dewatering and the expected recharge duration after cessation of dewatering. A specialised consultant may be required to provide this information.	 5. Utility information: a) a plan showing all utilities located within the zon of influence of dewatering and excavation or above or below any temporary ground anchors, whichever is greater, including owner, type, size and materials used for construction
		 □ b) for utilities identified as sensitive receptors, evidence that the utility owners have been
	Construction drawings: a) the pile type/s, loads, materials and their properties, numbers, locations and lengths above	contacted and asked to nominate a maximum permissible ground deflection and maximum permissible ground vibration within the vicinity o
□ k	and below the excavation. if the piles are not contiguous, the type/s, materials and their properties and locations of all infills e.g. shotcrete, and any walers	their assets. Sensitive receptors include, but are not limited to: utilities which carry gas or fluid that are
	•	 ≥300 mm diameter utilities constructed from cast iron, wrought iron, vitrified clay or masonry registered pipelines as defined by the
		Pipelines Act 2005. • Tram lines.
□ e	temporary ground anchors and any walers	A copy of an email to the utility owner is sufficient evidence or a permit, and it is noted that a response from utility owners may not be
□ f	 staging of pile construction, excavation and temporary ground anchor installation 	forthcoming.



		☐ Sup	oply supporting design for foundations including the			
6. Ins	strumentation and monitoring plan:		geotechnical profile and design parameters			
□ a)	what: e.g. survey monitoring, inclinometers,	_	adopted.			
	piezometers	☐ Wo	rksafe – notice of plant design registration or			
□ b)	where: e.g. survey points on capping beam at 5 m intervals		interstate equivalent.			
□ c)	when: baseline and subsequent monitoring will					
_ 0,	be undertaken e.g. baseline undertaken before	CANT	RIES AND SCAFFOLDS IN THE ROAD			
	any excavation commences, subsequent	RESERVE: All of the following items.				
	monitoring undertaken twice weekly until					
	temporary ground anchors are destressed.		ructural information:			
□ d)	thresholds: e.g. maximum horizontal	□ a)	the loads and load combinations adopted for			
— ч)	displacement of 20 mm measured from survey		design of protection work prepared in accordance			
	monitoring		with AS 1141			
□ e)	alarm procedure: e.g. green alarm = monitoring	□ b)	an explanation of the determination of the design			
<u> Б</u>	results are within 80% of threshold, continue		structural strength of protection work prepared in			
	construction with increased monitoring frequency;		accordance with the relevant Australian			
	amber alarm = monitoring results are within 95%		Standards.			
	of threshold, notify VicRoads, VicRoads may		2. Construction drawings:			
	impose conditions on further construction; red	□ a)	the location, type and dimensions			
	alarm = monitoring results have exceeded	□ b)	the component materials and properties,			
	threshold, cease construction and notify	□ c)	the details of connections between components.			
	VicRoads, construction not to recommence	□ d)	Foundation requirements including required			
	without VicRoads' approval.		founding material and method of verification.			
□ f)	who: the person responsible for setting		4161 4 6 11			
	thresholds, monitoring instrumentation,		rtificate of compliance:			
	determining if a threshold has been reached and	□ a)	a Building Regulations 2018 r126 certificate of			
	enacting the alarm procedure		compliance for protection work signed by an			
□ g)	delay: the expected delay between a threshold		independent engineer who DID NOT prepare the			
	being reached and the alarm procedure being		design and who is a Registered Building			
	enacted.		Practitioner in the category of engineer, class of			
			engineer (civil).			
HOARDINGS, SCREENS AND OTHER PERIMETER		DEMOLITION OF EXISTING BASEMENT:				
	ECTIONS OUTSIDE THE ROAD RESERVE:		otechnical investigation information:			
		□ a)	the results of a geotechnical site investigation			
⊔ Sup	oply drawings showing arrangement, indicating		and laboratory testing undertaken in accordance			
	location and type.		with AS 1289, AS 1726 and AS 4133			
☐ Supporting design.		□ b)	the geotechnical model used for design of			
			protection work prepared in accordance with AS			
CRANES THAT SWING OVER THE ROAD RESERVE:		□ c)	1726 where the materials encountered by the			
		,	geotechnical site investigation include distinctly			
⊔ Sup	oply Construction drawing indicating location, type,		weathered or better sedimentary rock, the			
	swing range and foundation including required		bedding dip and dip direction and joint sets must			
	founding material and method of verification.		be identified and included in the geotechnical			
☐ Details of the crane loadings applied to the foundation			model			
	for the proposed crane type.	□ d)	an explanation of the source of the design value			
		,	for each material parameter adopted for the			



	geotechnical model e.g. laboratory testing results, published information (including	4. (Certificate of compliance:
	reference)	□ a)	
□е	groundwater level/s adopted for the geotechnical model.		compliance for protection work signed by an independent engineer who DID NOT prepare the design and who is a Registered Building
□ f)	the loads and load combinations adopted for design of protection work prepared in accordance	-	Practitioner in the category of engineer, class of engineer (civil).
□ g	with AS 1141 g) an explanation of the determination of the design	□ b)	compliance must be supplied and should be
J	structural strength of protection work prepared in accordance with the relevant Australian	□ c)	marked issued for construction. The revisions, issue date and other details of the
□h	Standards		documents referenced on the certificate of compliance must match those of the supplied
ш "	geotechnical strength of protection work		documents.
	prepared in accordance with AS 4678	5.Ins	strumentation and monitoring plan:
2. I	Design reports & calculations	□ a)) what: e.g. survey monitoring, inclinometers, piezometers
□а	, , , , , , , , , , , , , , , , , , , ,	□ b)) where: e.g. survey points on capping beam at 5 m intervals
	based on the information from geotechnical report and justified by the designer.	□ c)	,
□b	the supporting design for the demolition works.		be undertaken e.g. baseline undertaken before any excavation commences, subsequent
□с	c) the supporting design for any temporary		monitoring undertaken twice weekly until
	supports.		temporary ground anchors are destressed.
□ d □ e	•	□ d)	
	Demolition drawings:		monitoring
٠	zomonuon aramingo.	□ e)	, ,
□а	 a) layout of the temporary works to support demolition. 		results are within 80% of threshold, continue construction with increased monitoring frequency;
□b	o) demolition and construction/ remediation sequence/ staging.		amber alarm = monitoring results are within 95% of threshold, notify VicRoads, VicRoads may
□с			impose conditions on further construction; red alarm = monitoring results have exceeded
	locations. Where anchors are to be used their		threshold, cease construction and notify
	loading, testing, lengths (free and bonded) and orientations		VicRoads, construction not to recommence without VicRoads' approval.
□d	d) the details of connections between temporary	□ f)	• •
□ f)			determining if a threshold has been reached and
	dewatering wells, temporary or permanent,	П ~	enacting the alarm procedure) delay: the expected delay between a threshold
	sumps etc. and any dewatering infrastructure to	□ g)	being reached and the alarm procedure being
	be installed inside the road reserve and demonstrate no adverse impacts due to		enacted.
	associated settlements.		Version: 18 December 2023

Need more information?

VICTORIA Department of Transport and Planning